

Samuel L Braunstein

List of Publications by Year in descending order

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125
papers

18,865
citations

23544

58
h-index

24961

109
g-index

127
all docs

127
docs citations

127
times ranked

6510
citing authors

#	ARTICLE	IF	CITATIONS
1	Environment-assisted bosonic quantum communications. Npj Quantum Information, 2021, 7, .	2.8	4
2	Detecting and tracking bacteria with quantum light. Physical Review Research, 2020, 2, .	1.3	8
3	CV-MDI-QKD with coherent state: beyond one-mode Gaussian attacks. IOP SciNotes, 2020, 1, 025202.	0.4	0
4	Tight bounds for private communication over bosonic Gaussian channels based on teleportation simulation with optimal finite resources. Physical Review A, 2019, 100, .	1.0	9
5	Thermal quantum metrology in memoryless and correlated environments. Quantum Science and Technology, 2019, 4, 015008.	2.6	9
6	Symmetric and asymmetric discrimination of bosonic loss: Toy applications to biological samples and photodegradable materials. Physical Review A, 2018, 98, .	1.0	2
7	Teleportation simulation of bosonic Gaussian channels: strong and uniform convergence. European Physical Journal D, 2018, 72, 1.	0.6	12
8	Finite-resource teleportation stretching for continuous-variable systems. Scientific Reports, 2018, 8, 15267.	1.6	13
9	Channel Simulation in Quantum Metrology. Quantum Measurements and Quantum Metrology, 2018, 5, 1-12.	3.3	30
10	Quantum information versus black hole physics: deep firewalls from narrow assumptions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170324.	1.6	1
11	Theory of channel simulation and bounds for private communication. Quantum Science and Technology, 2018, 3, 035009.	2.6	111
12	Discrimination of discord in separable Gaussian states. , 2018, , .		0
13	Physics: Unite to build a quantum Internet. Nature, 2016, 532, 169-171.	13.7	168
14	Secret key capacity of the thermal-loss channel: improving the lower bound. , 2016, , .		9
15	Quantum Fidelity for Arbitrary Gaussian States. Physical Review Letters, 2015, 115, 260501.	2.9	152
16	High-rate measurement-device-independent quantum cryptography. Nature Photonics, 2015, 9, 397-402.	15.6	334
17	Continuous-variable quantum cryptography with an untrusted relay: Detailed security analysis of the symmetric configuration. Physical Review A, 2015, 91, .	1.0	53
18	Quantum cryptography with an ideal local relay. , 2015, , .		4

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19	Reply to 'Discrete and continuous variables for measurement-device-independent quantum cryptography'. Nature Photonics, 2015, 9, 773-775.	15.6	37
20	Asymmetric quantum hypothesis testing with Gaussian states. Physical Review A, 2014, 90, .	1.0	24
21	Optimality of Gaussian Discord. Physical Review Letters, 2014, 113, 140405.	2.9	67
22	Better Late than Never: Information Retrieval from Black Holes. Physical Review Letters, 2013, 110, 101301.	2.9	350
23	Side-Channel-Free Quantum Key Distribution. Physical Review Letters, 2012, 108, 130502.	2.9	508
24	Quantum reading under a local energy constraint. Physical Review A, 2012, 86, .	1.0	24
25	Black Hole Evaporation Rates without Spacetime. Physical Review Letters, 2011, 107, 071302.	2.9	17
26	Quantum algorithm for the asymmetric weight decision problem and its generalization to multiple weights. Quantum Information Processing, 2011, 10, 177-188.	1.0	5
27	Quantum Fourier transform, Heisenberg groups and quasi-probability distributions. New Journal of Physics, 2011, 13, 063013.	1.2	13
28	Quantum reading capacity. New Journal of Physics, 2011, 13, 113012.	1.2	60
29	Five-wave-packet linear optics quantum-error-correcting code. Physical Review A, 2010, 81, .	1.0	6
30	Eavesdropping of Two-Way Coherent-State Quantum Cryptography via Gaussian Quantum Cloning Machines. , 2009, , .		1
31	Direct and Reverse Secret-Key Capacities of a Quantum Channel. Physical Review Letters, 2009, 102, 050503.	2.9	182
32	Confidential Direct Communications: A Quantum Approach Using Continuous Variables. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 1570-1580.	1.9	20
33	Quantum error correction beyond qubits. Nature Physics, 2009, 5, 541-546.	6.5	113
34	On the Security and Degradability of Gaussian Channels. Lecture Notes in Computer Science, 2009, , 47-55.	1.0	3
35	Continuous-variable quantum cryptography using two-way quantum communication. Nature Physics, 2008, 4, 726-730.	6.5	198
36	Error Correcting Bell Inequalities. Physical Review Letters, 2008, 101, 080501.	2.9	1

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37	Exponentially Enhanced Quantum Metrology. <i>Physical Review Letters</i> , 2008, 100, 220501.	2.9	120
38	Hybrid quantum computation in quantum optics. <i>Physical Review A</i> , 2008, 78, .	1.0	66
39	Characterization of Collective Gaussian Attacks and Security of Coherent-State Quantum Cryptography. <i>Physical Review Letters</i> , 2008, 101, 200504.	2.9	167
40	Estimation of pure qubits on circles. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 1809-1834.	0.7	4
41	Exact quantum algorithm to distinguish Boolean functions of different weights. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 8441-8454.	0.7	13
42	Classical Broadcasting is Possible with Arbitrarily High Fidelity and Resolution. <i>Physical Review Letters</i> , 2007, 98, 080501.	2.9	6
43	Quantum Information Cannot Be Completely Hidden in Correlations: Implications for the Black-Hole Information Paradox. <i>Physical Review Letters</i> , 2007, 98, 080502.	2.9	128
44	Experimental Demonstration of Quantum Teleportation of Broadband Squeezing. <i>Physical Review Letters</i> , 2007, 99, 110503.	2.9	68
45	Sure Success Partial Search. <i>Quantum Information Processing</i> , 2007, 6, 1-8.	1.0	27
46	Quantum computation by communication. <i>New Journal of Physics</i> , 2006, 8, 30-30.	1.2	188
47	Qubus computation. , 2006, 6305, 78.		0
48	Size isn't everything. <i>Nature</i> , 2006, 440, 617-618.	13.7	7
49	Demonstration of Quantum Telecloning of Optical Coherent States. <i>Physical Review Letters</i> , 2006, 96, 060504.	2.9	80
50	Continuous-variable Gaussian analog of cluster states. <i>Physical Review A</i> , 2006, 73, .	1.0	204
51	Squeezing as an irreducible resource. <i>Physical Review A</i> , 2005, 71, .	1.0	323
52	Quantum information with continuous variables. <i>Reviews of Modern Physics</i> , 2005, 77, 513-577.	16.4	2,800
53	Schrödinger cats and their power for quantum information processing. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, S828-S833.	1.4	139
54	Quantum lithography, entanglement and Heisenberg-limited parameter estimation. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, S811-S815.	1.4	68

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55	Quantum coherence: myth or fact?. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 333, 378-381.	0.9	7
56	Towards photostatistics from photon-number discriminating detectors. Journal of Modern Optics, 2004, 51, 1517-1528.	0.6	36
57	Quantum deleting and signalling. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 315, 208-212.	0.9	27
58	Quantum-state transfer from light to macroscopic oscillators. Physical Review A, 2003, 68, .	1.0	263
59	Multipartite Entanglement for Continuous Variables. , 2003, , 111-143.		2
60	Deutsch-Jozsa Algorithm for Continuous Variables. , 2003, , 31-36.		11
61	Introduction to Entanglement-Based Protocols. , 2003, , 59-66.		0
62	Efficient Classical Simulation of Continuous Variable Quantum Information Processes. Physical Review Letters, 2002, 88, 097904.	2.9	286
63	Efficient Classical Simulation of Continuous Variable Quantum Information Processes. , 2002, , 47-55.		1
64	Quantum Lithography. , 2002, , 391-397.		0
65	Quantum versus classical domains for teleportation with continuous variables. Physical Review A, 2001, 64, .	1.0	109
66	Quantum-interferometric optical lithography: Towards arbitrary two-dimensional patterns. Physical Review A, 2001, 63, .	1.0	104
67	Optimal Cloning of Coherent States with a Linear Amplifier and Beam Splitters. Physical Review Letters, 2001, 86, 4938-4941.	2.9	131
68	Multi-dimensional Hermite polynomials in quantum optics. Journal of Physics A, 2001, 34, 6185-6195.	1.6	18
69	Greenberger-Horne-Zeilinger nonlocality in phase space. Physical Review A, 2001, 63, .	1.0	58
70	Quantum-information distributors: Quantum network for symmetric and asymmetric cloning in arbitrary dimension and continuous limit. Physical Review A, 2001, 63, .	1.0	99
71	Detection devices in entanglement-based optical state preparation. Physical Review A, 2001, 63, .	1.0	80
72	Telecloning of Continuous Quantum Variables. Physical Review Letters, 2001, 87, 247901.	2.9	123

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73	Entanglement Swapping as Event-Ready Entanglement Preparation. Fortschritte Der Physik, 2000, 48, 553-557.	1.5	4
74	Impossibility of deleting an unknown quantum state. Nature, 2000, 404, 164-165.	13.7	108
75	Postselected versus nonpostselected quantum teleportation using parametric down-conversion. Physical Review A, 2000, 61, .	1.0	140
76	Dense coding for continuous variables. Physical Review A, 2000, 61, .	1.0	377
77	Universal Teleportation with a Twist. Physical Review Letters, 2000, 84, 3486-3489.	2.9	126
78	Broadband teleportation. Physical Review A, 2000, 62, .	1.0	48
79	Limitations on the creation of maximal entanglement. Physical Review A, 2000, 62, .	1.0	34
80	Quantum Interferometric Optical Lithography: Exploiting Entanglement to Beat the Diffraction Limit. Physical Review Letters, 2000, 85, 2733-2736.	2.9	1,308
81	Multipartite Entanglement for Continuous Variables: A Quantum Teleportation Network. Physical Review Letters, 2000, 84, 3482-3485.	2.9	482
82	Impossibility of deleting an unknown quantum state. Nature, 2000, 404, 164-165.	13.7	122
83	Criteria for continuous-variable quantum teleportation. Journal of Modern Optics, 2000, 47, 267-278.	0.6	169
84	Dense Coding for Continuous Variables. , 2000, , 95-103.		12
85	Criteria for continuous-variable quantum teleportation. Journal of Modern Optics, 2000, 47, 267-278.	0.6	27
86	Quantum Computation over Continuous Variables. Physical Review Letters, 1999, 82, 1784-1787.	2.9	775
87	Unconditional teleportation of continuous-variable entanglement. Physical Review A, 1999, 61, .	1.0	117
88	Quantum teleportation with squeezed vacuum states. Physical Review A, 1999, 60, 937-942.	1.0	191
89	Quantum Computation Over Continuous Variables. , 1999, , 9-17.		24
90	A posteriori teleportation. Nature, 1998, 394, 840-841.	13.7	86

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91	Quantum error correction for communication with linear optics. <i>Nature</i> , 1998, 394, 47-49.	13.7	175
92	Teleportation as a quantum computation. <i>Physica D: Nonlinear Phenomena</i> , 1998, 120, 43-47.	1.3	129
93	Teleportation of Continuous Quantum Variables. <i>Physical Review Letters</i> , 1998, 80, 869-872.	2.9	1,459
94	Error Correction for Continuous Quantum Variables. <i>Physical Review Letters</i> , 1998, 80, 4084-4087.	2.9	163
95	Error Correction for Continuous Quantum Variables. , 1998, , 19-29.		4
96	Teleportation of Continuous Quantum Variables. , 1998, , 67-75.		3
97	Perfect quantum-error-correction coding in 24 laser pulses. <i>Physical Review A</i> , 1997, 55, 945-950.	1.0	23
98	Geometry of quantum inference. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 219, 169-174.	0.9	39
99	Generalized Uncertainty Relations: Theory, Examples, and Lorentz Invariance. <i>Annals of Physics</i> , 1996, 247, 135-173.	1.0	566
100	Quantum teleportation without irreversible detection. <i>Physical Review A</i> , 1996, 53, 1900-1902.	1.0	28
101	Destruction of photocount oscillations by thermal noise. <i>Physical Review A</i> , 1995, 51, 4967-4973.	1.0	22
102	Dynamics of statistical distance: Quantum limits for two-level clocks. <i>Physical Review A</i> , 1995, 51, 1820-1826.	1.0	28
103	Degenerate parametric amplifiers with a squeezed pump. <i>Physical Review A</i> , 1995, 52, 815-829.	1.0	10
104	Measurement of the Bell operator and quantum teleportation. <i>Physical Review A</i> , 1995, 51, R1727-R1730.	1.0	248
105	Geometry of Quantum States. <i>Annals of the New York Academy of Sciences</i> , 1995, 755, 786-797.	1.8	6
106	Geometry of Quantum States. , 1995, , 21-30.		4
107	Some limits to precision phase measurement. <i>Physical Review A</i> , 1994, 49, 69-75.	1.0	13
108	Statistical distance and the geometry of quantum states. <i>Physical Review Letters</i> , 1994, 72, 3439-3443.	2.9	2,154

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109	Maximum-likelihood statistics of multiple quantum phase measurements. Physical Review A, 1993, 47, 1667-1696.	1.0	75
110	Noise in Mermin's n-particle Bell inequality. Physical Review A, 1993, 47, R2427-R2430.	1.0	18
111	Quantum limits on precision measurements of phase. Physical Review Letters, 1992, 69, 3598-3601.	2.9	105
112	Damping of quantum superpositions. Physical Review A, 1992, 45, 6803-6810.	1.0	14
113	Maximal violation of Bell inequalities for mixed states. Physical Review Letters, 1992, 68, 3259-3261.	2.9	366
114	Maximum-likelihood analysis of multiple quantum phase measurements. Physical Review Letters, 1992, 69, 2153-2156.	2.9	63
115	Interpretation for a positive representation. Physical Review A, 1991, 43, 1153-1159.	1.0	73
116	Fundamental limits to observations of squeezing via balanced homodyne detection. Physical Review A, 1991, 43, 330-337.	1.0	5
117	Wringing out better Bell inequalities. Annals of Physics, 1990, 202, 22-56.	1.0	185
118	Homodyne statistics. Physical Review A, 1990, 42, 474-481.	1.0	71
119	Phase and homodyne statistics of generalized squeezed states. Physical Review A, 1990, 42, 4115-4119.	1.0	36
120	Wringing out better Bell inequalities. Nuclear Physics, Section B, Proceedings Supplements, 1989, 6, 211-221.	0.5	17
121	Quantum rules: an Effect can have more than one Operation. Foundations of Physics Letters, 1988, 1, 3-12.	0.6	15
122	Information-Theoretic Bell Inequalities. Physical Review Letters, 1988, 61, 662-665.	2.9	138
123	Limitations to squeezing in a parametric amplifier due to pump quantum fluctuations. Physical Review A, 1988, 38, 4696-4711.	1.0	35
124	Generalized squeezing. Physical Review A, 1987, 35, 1659-1667.	1.0	103
125	The Structure of Partial Isometries. , 0, , 361-388.		4