

Vittorio Giovannetti

List of Publications by Year in descending order

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272
papers

19,934
citations

16411

64
h-index

11581

135
g-index

274
all docs

274
docs citations

274
times ranked

8378
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in quantum metrology. Nature Photonics, 2011, 5, 222-229.	15.6	2,567
2	Quantum-Enhanced Measurements: Beating the Standard Quantum Limit. Science, 2004, 306, 1330-1336.	6.0	2,172
3	Quantum Metrology. Physical Review Letters, 2006, 96, 010401.	2.9	1,629
4	Entangling Macroscopic Oscillators Exploiting Radiation Pressure. Physical Review Letters, 2002, 88, 120401.	2.9	520
5	Quantum Random Access Memory. Physical Review Letters, 2008, 100, 160501.	2.9	519
6	Quantum Illumination with Gaussian States. Physical Review Letters, 2008, 101, 253601.	2.9	495
7	Phase-noise measurement in a cavity with a movable mirror undergoing quantum Brownian motion. Physical Review A, 2001, 63, .	1.0	409
8	High-fidelity quantum driving. Nature Physics, 2012, 8, 147-152.	6.5	382
9	Quantum-enhanced positioning and clock synchronization. Nature, 2001, 412, 417-419.	13.7	377
10	Optimal Control at the Quantum Speed Limit. Physical Review Letters, 2009, 103, 240501.	2.9	372
11	Anderson localization of entangled photons in an integrated quantum walk. Nature Photonics, 2013, 7, 322-328.	15.6	372
12	Quantum limits to dynamical evolution. Physical Review A, 2003, 67, .	1.0	286
13	Classical Capacity of the Lossy Bosonic Channel: The Exact Solution. Physical Review Letters, 2004, 92, 027902.	2.9	274
14	Quantum channels and memory effects. Reviews of Modern Physics, 2014, 86, 1203-1259.	16.4	232
15	Measures of Quantum Synchronization in Continuous Variable Systems. Physical Review Letters, 2013, 111, 103605.	2.9	207
16	Quantum Discord Determines the Interferometric Power of Quantum States. Physical Review Letters, 2014, 112, .	2.9	204
17	Decoherence induced by interacting quantum spin baths. Physical Review A, 2007, 75, .	1.0	182
18	Characterizing the entanglement of bipartite quantum systems. Physical Review A, 2003, 67, .	1.0	174

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19	Architectures for a quantum random access memory. <i>Physical Review A</i> , 2008, 78, .	1.0	174
20	Extractable Work, the Role of Correlations, and Asymptotic Freedom in Quantum Batteries. <i>Physical Review Letters</i> , 2019, 122, 047702.	2.9	172
21	The quantum-optical Josephson interferometer. <i>Nature Physics</i> , 2009, 5, 281-284.	6.5	171
22	Quantum Private Queries. <i>Physical Review Letters</i> , 2008, 100, 230502.	2.9	162
23	Ultimate classical communication rates of quantum optical channels. <i>Nature Photonics</i> , 2014, 8, 796-800.	15.6	147
24	Toward computability of trace distance discord. <i>New Journal of Physics</i> , 2014, 16, 013038.	1.2	133
25	Collision-model-based approach to non-Markovian quantum dynamics. <i>Physical Review A</i> , 2013, 87, .	1.0	129
26	Quantum channels and their entropic characteristics. <i>Reports on Progress in Physics</i> , 2012, 75, 046001.	8.1	124
27	Full Control by Locally Induced Relaxation. <i>Physical Review Letters</i> , 2007, 99, 100501.	2.9	123
28	Slow Dynamics and Thermodynamics of Open Quantum Systems. <i>Physical Review Letters</i> , 2017, 119, 050601.	2.9	117
29	Information-capacity description of spin-chain correlations. <i>Physical Review A</i> , 2005, 71, .	1.0	115
30	Charger-mediated energy transfer in exactly solvable models for quantum batteries. <i>Physical Review B</i> , 2018, 98, .	1.1	113
31	One-mode bosonic Gaussian channels: a full weak-degradability classification. <i>New Journal of Physics</i> , 2006, 8, 310-310.	1.2	111
32	Signatures of the superfluid-insulator phase transition in laser-driven dissipative nonlinear cavity arrays. <i>Physical Review A</i> , 2010, 81, .	1.0	111
33	Charger-mediated energy transfer for quantum batteries: An open-system approach. <i>Physical Review B</i> , 2019, 99, .	1.1	108
34	Minimal Self-Contained Quantum Refrigeration Machine Based on Four Quantum Dots. <i>Physical Review Letters</i> , 2013, 110, 256801.	2.9	107
35	Quantum time. <i>Physical Review D</i> , 2015, 92, .	1.6	106
36	Master Equations for Correlated Quantum Channels. <i>Physical Review Letters</i> , 2012, 108, 040401.	2.9	105

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37	Closed Timelike Curves via Postselection: Theory and Experimental Test of Consistency. <i>Physical Review Letters</i> , 2011, 106, 040403.	2.9	104
38	Minimum output entropy of bosonic channels: A conjecture. <i>Physical Review A</i> , 2004, 70, .	1.0	102
39	Mutual information as an order parameter for quantum synchronization. <i>Physical Review A</i> , 2015, 91, .	1.0	99
40	Enhancing quantum effects via periodic modulations in optomechanical systems. <i>Physical Review A</i> , 2012, 86, .	1.0	96
41	Generating Entangled Two-Photon States with Coincident Frequencies. <i>Physical Review Letters</i> , 2002, 88, 183602.	2.9	95
42	Clock Synchronization with Dispersion Cancellation. <i>Physical Review Letters</i> , 2001, 87, 117902.	2.9	92
43	Sub-Rayleigh-diffraction-bound quantum imaging. <i>Physical Review A</i> , 2009, 79, .	1.0	91
44	Creating quantum correlations through local nonunitary memoryless channels. <i>Physical Review A</i> , 2012, 85, .	1.0	88
45	Communication at the quantum speed limit along a spin chain. <i>Physical Review A</i> , 2010, 82, .	1.0	86
46	A Solution of Gaussian Optimizer Conjecture for Quantum Channels. <i>Communications in Mathematical Physics</i> , 2015, 334, 1553-1571.	1.0	85
47	Positioning and clock synchronization through entanglement. <i>Physical Review A</i> , 2002, 65, .	1.0	84
48	Time from quantum entanglement: An experimental illustration. <i>Physical Review A</i> , 2014, 89, .	1.0	84
49	Thermoelectric efficiency of three-terminal quantum thermal machines. <i>New Journal of Physics</i> , 2014, 16, 085001.	1.2	84
50	Local quantum thermal susceptibility. <i>Nature Communications</i> , 2016, 7, 12782.	5.8	81
51	Quantum Private Queries: Security Analysis. <i>IEEE Transactions on Information Theory</i> , 2010, 56, 3465-3477.	1.5	76
52	Speeding up and slowing down the relaxation of a qubit by optimal control. <i>Physical Review A</i> , 2013, 88, .	1.0	75
53	Quantum Multiscale Entanglement Renormalization Ansatz Channels. <i>Physical Review Letters</i> , 2008, 101, 180503.	2.9	74
54	Cavity quantum electrodynamics of strongly correlated electron systems: A no-go theorem for photon condensation. <i>Physical Review B</i> , 2019, 100, .	1.1	74

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55	Thermodynamics of discrete quantum processes. <i>New Journal of Physics</i> , 2013, 15, 033022.	1.2	73
56	Local controllability of quantum networks. <i>Physical Review A</i> , 2009, 79, .	1.0	72
57	Multi-mode bosonic Gaussian channels. <i>New Journal of Physics</i> , 2008, 10, 083030.	1.2	70
58	Sub-Heisenberg Estimation Strategies Are Ineffective. <i>Physical Review Letters</i> , 2012, 108, 210404.	2.9	70
59	Quantum mechanics of time travel through post-selected teleportation. <i>Physical Review D</i> , 2011, 84, .	1.6	69
60	Quantum state majorization at the output of bosonic Gaussian channels. <i>Nature Communications</i> , 2014, 5, 3826.	5.8	69
61	The role of entanglement in dynamical evolution. <i>Europhysics Letters</i> , 2003, 62, 615-621.	0.7	68
62	Degradability of Bosonic Gaussian channels. <i>Physical Review A</i> , 2006, 74, .	1.0	68
63	Optimal quantum-chain communication by end gates. <i>Physical Review A</i> , 2007, 75, .	1.0	68
64	Quantum collision models: Open system dynamics from repeated interactions. <i>Physics Reports</i> , 2022, 954, 1-70.	10.3	68
65	Experimental quantum private queries with linear optics. <i>Physical Review A</i> , 2009, 80, .	1.0	67
66	Improved Transfer of Quantum Information Using a Local Memory. <i>Physical Review Letters</i> , 2006, 96, 030501.	2.9	66
67	Theory of photon condensation in a spatially varying electromagnetic field. <i>Physical Review B</i> , 2020, 102, .	1.1	62
68	Quantum reading capacity. <i>New Journal of Physics</i> , 2011, 13, 113012.	1.2	60
69	Efficient and perfect state transfer in quantum chains. <i>Journal of Physics A</i> , 2005, 38, 6793-6802.	1.6	59
70	Efficient Universal Blind Quantum Computation. <i>Physical Review Letters</i> , 2013, 111, 230501.	2.9	59
71	Radiation pressure induced Einstein-Podolsky-Rosen paradox. <i>Europhysics Letters</i> , 2001, 54, 559-565.	0.7	58
72	Separability conditions from entropic uncertainty relations. <i>Physical Review A</i> , 2004, 70, .	1.0	55

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73	Entanglement Assisted Capacity of the Broadband Lossy Channel. <i>Physical Review Letters</i> , 2003, 91, 047901.	2.9	53
74	Additivity properties of a Gaussian channel. <i>Physical Review A</i> , 2004, 69, .	1.0	53
75	Ergodic and mixing quantum channels in finite dimensions. <i>New Journal of Physics</i> , 2013, 15, 073045.	1.2	53
76	Robust gates for holonomic quantum computation. <i>Physical Review A</i> , 2006, 73, .	1.0	52
77	Broadband channel capacities. <i>Physical Review A</i> , 2003, 68, .	1.0	51
78	All-optical non-Markovian stroboscopic quantum simulator. <i>Physical Review A</i> , 2015, 91, .	1.0	50
79	Maximum power and corresponding efficiency for two-level heat engines and refrigerators: optimality of fast cycles. <i>New Journal of Physics</i> , 2019, 21, 103049.	1.2	50
80	A dynamical model for quantum memory channels. <i>Journal of Physics A</i> , 2005, 38, 10989-11005.	1.6	49
81	Controlled Coupling of Spin-Resolved Quantum Hall Edge States. <i>Physical Review Letters</i> , 2011, 107, 236804.	2.9	49
82	Bosonic memory channels. <i>Physical Review A</i> , 2005, 71, .	1.0	48
83	Drude Weight, Cyclotron Resonance, and the Dicke Model of Graphene Cavity QED. <i>Physical Review Letters</i> , 2012, 109, 267404.	2.9	48
84	Quantum optomechanical piston engines powered by heat. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 175501.	0.6	47
85	The speed limit of quantum unitary evolution. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, S807-S810.	1.4	46
86	Quantum Measurement Bounds beyond the Uncertainty Relations. <i>Physical Review Letters</i> , 2012, 108, 260405.	2.9	46
87	Minimum Rényi and Wehrl entropies at the output of bosonic channels. <i>Physical Review A</i> , 2004, 70, .	1.0	45
88	Separation of heat and charge currents for boosted thermoelectric conversion. <i>Physical Review B</i> , 2015, 91, .	1.1	45
89	Non-Markovian quantum feedback from homodyne measurements: The effect of a nonzero feedback delay time. <i>Physical Review A</i> , 1999, 60, 1549-1561.	1.0	43
90	Heat flux and quantum correlations in dissipative cascaded systems. <i>Physical Review A</i> , 2015, 91, .	1.0	43

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91	Non-Markov enhancement of maximum power for quantum thermal machines. <i>Physical Review A</i> , 2019, 99, .	1.0	43
92	Electronic Hong-Ou-Mandel interferometer for multimode entanglement detection. <i>Physical Review B</i> , 2006, 74, .	1.1	41
93	Estimating temperature via sequential measurements. <i>Physical Review A</i> , 2017, 96, .	1.0	41
94	Homogeneous binary trees as ground states of quantum critical Hamiltonians. <i>Physical Review A</i> , 2010, 81, .	1.0	40
95	Phase Estimation via Quantum Interferometry for Noisy Detectors. <i>Physical Review Letters</i> , 2012, 108, 233602.	2.9	39
96	Optimal Continuous Variable Quantum Teleportation with Limited Resources. <i>Physical Review Letters</i> , 2017, 119, 120503.	2.9	39
97	Exponential rise of dynamical complexity in quantum computing through projections. <i>Nature Communications</i> , 2014, 5, 5173.	5.8	38
98	Necessity of Eigenstate Thermalization. <i>Physical Review Letters</i> , 2015, 115, 220401.	2.9	38
99	Bridging thermodynamics and metrology in nonequilibrium quantum thermometry. <i>Physical Review A</i> , 2018, 98, .	1.0	37
100	All-optical implementation of collision-based evolutions of open quantum systems. <i>Scientific Reports</i> , 2019, 9, 3205.	1.6	36
101	Decoherence by engineered quantum baths. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 8033-8040.	0.7	35
102	Sequential Projective Measurements for Channel Decoding. <i>Physical Review Letters</i> , 2011, 106, 250501.	2.9	35
103	Master equation for cascade quantum channels: a collisional approach. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 154003.	0.6	35
104	A generalization of the entropy power inequality to bosonic quantum systems. <i>Nature Photonics</i> , 2014, 8, 958-964.	15.6	35
105	Entropy production and asymptotic factorization via thermalization: A collisional model approach. <i>Physical Review A</i> , 2018, 98, .	1.0	35
106	A quantum non-Markovian collision model: incoherent swap case. <i>Physica Scripta</i> , 2013, T153, 014010.	1.2	34
107	Majorization and additivity for multimode bosonic Gaussian channels. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2015, 182, 284-293.	0.3	34
108	The generalized Lyapunov theorem and its application to quantum channels. <i>New Journal of Physics</i> , 2007, 9, 150-150.	1.2	33

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109	Capacities of Lossy Bosonic Memory Channels. <i>Physical Review Letters</i> , 2010, 104, 030501.	2.9	33
110	Narrow bounds for the quantum capacity of thermal attenuators. <i>Nature Communications</i> , 2018, 9, 4339.	5.8	33
111	Local-channel-induced rise of quantum correlations in continuous-variable systems. <i>Physical Review A</i> , 2012, 85, .	1.0	32
112	Efficiency of quantum controlled non-Markovian thermalization. <i>New Journal of Physics</i> , 2015, 17, 063031.	1.2	32
113	Optimal thermodynamic control in open quantum systems. <i>Physical Review A</i> , 2018, 98, .	1.0	32
114	Discriminating strength: a bona fide measure of non-classical correlations. <i>New Journal of Physics</i> , 2014, 16, 073010.	1.2	31
115	Passive States Optimize the Output of Bosonic Gaussian Quantum Channels. <i>IEEE Transactions on Information Theory</i> , 2016, 62, 2895-2906.	1.5	31
116	Generalized minimal output entropy conjecture for one-mode Gaussian channels: definitions and some exact results. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 415305.	0.7	30
117	Information transmission through lossy bosonic memory channels. <i>Europhysics Letters</i> , 2005, 70, 719-725.	0.7	29
118	Quantum parameter estimation affected by unitary disturbance. <i>Physical Review A</i> , 2013, 88, .	1.0	28
119	Quantum simulation of bosonic-fermionic noninteracting particles in disordered systems via a quantum walk. <i>Physical Review A</i> , 2014, 89, .	1.0	28
120	Conveyor-belt clock synchronization. <i>Physical Review A</i> , 2004, 70, .	1.0	27
121	Spatially resolved analysis of edge-channel equilibration in quantum Hall circuits. <i>Physical Review B</i> , 2011, 83, .	1.1	27
122	Logic circuits from zero forcing. <i>Natural Computing</i> , 2015, 14, 485-490.	1.8	27
123	Achieving the Holevo bound via sequential measurements. <i>Physical Review A</i> , 2012, 85, .	1.0	26
124	Multichannel architecture for electronic quantum Hall interferometry. <i>Physical Review B</i> , 2008, 77, .	1.1	25
125	Multimode quantum entropy power inequality. <i>Physical Review A</i> , 2015, 91, .	1.0	25
126	Beyond the Swap Test: Optimal Estimation of Quantum State Overlap. <i>Physical Review Letters</i> , 2020, 124, 060503.	2.9	25

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127	Optimal unitary dilation for bosonic Gaussian channels. <i>Physical Review A</i> , 2011, 84, .	1.0	24
128	Magnetic thermal switch for heat management at the nanoscale. <i>Physical Review B</i> , 2015, 91, .	1.1	24
129	Gaussian States Minimize the Output Entropy of One-Mode Quantum Gaussian Channels. <i>Physical Review Letters</i> , 2017, 118, 160503.	2.9	24
130	Mediated homogenization. <i>Physical Review A</i> , 2007, 76, .	1.0	23
131	Beauty and the noisy beast. <i>Nature Physics</i> , 2011, 7, 376-377.	6.5	23
132	Statistical distribution of the local purity in a large quantum system. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 015308.	0.7	23
133	Dynamical approach to ancilla-assisted quantum thermometry. <i>Physical Review A</i> , 2018, 98, .	1.0	23
134	Critical exponents with a multiscale entanglement renormalization Ansatz channel. <i>Physical Review B</i> , 2009, 80, .	1.1	22
135	Normal form decomposition for Gaussian-to-Gaussian superoperators. <i>Journal of Mathematical Physics</i> , 2015, 56, 052202.	0.5	22
136	Coherent-state discrimination via nonheralded probabilistic amplification. <i>Physical Review A</i> , 2016, 93, .	1.0	22
137	Physical Limits to Communication. <i>Physical Review Letters</i> , 2004, 93, 100501.	2.9	21
138	Steady-state entanglement activation in optomechanical cavities. <i>Physical Review A</i> , 2014, 89, .	1.0	21
139	Gaussian discriminating strength. <i>Physical Review A</i> , 2015, 92, .	1.0	21
140	Incompatibility in quantum parameter estimation. <i>New Journal of Physics</i> , 2021, 23, 063055.	1.2	21
141	Quantum estimation via sequential measurements. <i>New Journal of Physics</i> , 2015, 17, 113055.	1.2	20
142	Gaussian optimizers for entropic inequalities in quantum information. <i>Journal of Mathematical Physics</i> , 2018, 59, .	0.5	20
143	Homogeneous multiscale-entanglement-renormalization-ansatz states: An information theoretical analysis. <i>Physical Review A</i> , 2009, 79, .	1.0	19
144	Efficient generation of a maximally entangled state by repeated on- and off-resonant scattering of ancilla qubits. <i>New Journal of Physics</i> , 2009, 11, 123027.	1.2	19

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145	Theory of integer quantum Hall polaritons in graphene. <i>Physical Review B</i> , 2014, 89, .	1.1	19
146	Thermopower of three-terminal topological superconducting systems. <i>Physical Review B</i> , 2015, 91, .	1.1	19
147	Optimal Gaussian metrology for generic multimode interferometric circuit. <i>New Journal of Physics</i> , 2019, 21, 033014.	1.2	19
148	Quantum Flags and New Bounds on the Quantum Capacity of the Depolarizing Channel. <i>Physical Review Letters</i> , 2020, 125, 020503.	2.9	19
149	Maximum-power heat engines and refrigerators in the fast-driving regime. <i>Physical Review A</i> , 2021, 104, .	1.0	18
150	Quantum cryptographic ranging. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2002, 4, S413-S414.	1.4	17
151	Electromagnetic channel capacity for practical purposes. <i>Nature Photonics</i> , 2013, 7, 834-838.	15.6	17
152	Topological pumping in the one-dimensional Bose-Hubbard model. <i>Physical Review B</i> , 2013, 87, .	1.1	17
153	Quantum reading capacity under thermal and correlated noise. <i>Physical Review A</i> , 2013, 87, .	1.0	17
154	Multiphase Hadamard receivers for classical communication on lossy bosonic channels. <i>Physical Review A</i> , 2016, 94, .	1.0	17
155	Building versatile bipartite probes for quantum metrology. <i>New Journal of Physics</i> , 2016, 18, 013049.	1.2	17
156	Characterizing electron entanglement in multiterminal mesoscopic conductors. <i>Physical Review B</i> , 2007, 75, .	1.1	16
157	Proposal for a Datta-Das transistor in the quantum Hall regime. <i>Physical Review B</i> , 2012, 85, .	1.1	16
158	Optimal Universal Learning Machines for Quantum State Discrimination. <i>IEEE Transactions on Information Theory</i> , 2019, 65, 5931-5944.	1.5	16
159	Imaging backscattering through impurity-induced antidots in quantum Hall constrictions. <i>Physical Review B</i> , 2012, 86, .	1.1	15
160	Quantifying the noise of a quantum channel by noise addition. <i>Physical Review A</i> , 2012, 86, .	1.0	15
161	Quantum capacity analysis of multi-level amplitude damping channels. <i>Communications Physics</i> , 2021, 4, .	2.0	15
162	Teleportation-Induced Correlated Quantum Channels. <i>Physical Review Letters</i> , 2010, 104, 020503.	2.9	14

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163	Entanglement-breaking indices. <i>Journal of Mathematical Physics</i> , 2015, 56, .	0.5	14
164	Nanoscale Mach-Zehnder interferometer with spin-resolved quantum Hall edge states. <i>Physical Review B</i> , 2015, 92, .	1.1	14
165	Achieving Heisenberg scaling with maximally entangled states: An analytic upper bound for the attainable root-mean-square error. <i>Physical Review A</i> , 2020, 102, .	1.0	14
166	Capacity of Bosonic Communications. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	13
167	Conditions for multiplicativity of maximal $\hat{\alpha}_p$ -norms of channels for fixed integer p . <i>Journal of Mathematical Physics</i> , 2005, 46, 042105.	0.5	13
168	EFFICIENT AND PERFECT STATE TRANSFER IN QUANTUM CHAINS. <i>International Journal of Quantum Information</i> , 2006, 04, 405-414.	0.6	13
169	Electronic implementations of interaction-free measurements. <i>Physical Review B</i> , 2010, 82, .	1.1	13
170	Memory effects in attenuation and amplification quantum processes. <i>Physical Review A</i> , 2010, 82, .	1.0	13
171	Spin-supersolid phase in Heisenberg chains: A characterization via matrix product states with periodic boundary conditions. <i>Physical Review B</i> , 2011, 83, .	1.1	13
172	Quantum quenches, linear response and superfluidity out of equilibrium. <i>Europhysics Letters</i> , 2014, 107, 30002.	0.7	13
173	Two-mode bosonic quantum metrology with number fluctuations. <i>Physical Review A</i> , 2015, 92, .	1.0	13
174	Optimal processes for probabilistic work extraction beyond the second law. <i>Scientific Reports</i> , 2016, 6, 29282.	1.6	13
175	Classical capacity of free-space optical communication. <i>Quantum Information and Computation</i> , 2004, 4, 489-499.	0.1	13
176	Qubit channels with small correlations. <i>Physical Review A</i> , 2008, 77, .	1.0	12
177	Stiffness in 1D matrix product states with periodic boundary conditions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P05021.	0.9	12
178	Teleportation transfers only speakable quantum information. <i>Physical Review A</i> , 2012, 86, .	1.0	12
179	Non-Abelian phases from quantum Zeno dynamics. <i>Physical Review A</i> , 2013, 88, .	1.0	12
180	Time-optimal thermalization of single-mode Gaussian states. <i>Physical Review A</i> , 2014, 90, .	1.0	12

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181	Perturbative approach to continuous-time quantum error correction. <i>Physical Review A</i> , 2015, 91, .	1.0	12
182	Passive states as optimal inputs for single-jump lossy quantum channels. <i>Physical Review A</i> , 2016, 93, .	1.0	12
183	Achieving the Holevo bound via a bisection decoding protocol. <i>Journal of Mathematical Physics</i> , 2016, 57, 062204.	0.5	12
184	Cut-and-paste restoration of entanglement transmission. <i>Physical Review A</i> , 2017, 96, .	1.0	12
185	Variational approach to the optimal control of coherently driven, open quantum system dynamics. <i>Physical Review A</i> , 2018, 98, .	1.0	12
186	Universal control induced by noise. <i>Physical Review A</i> , 2016, 93, .	1.0	11
187	Discrimination of thermal baths by single-qubit probes. <i>Physical Review Research</i> , 2020, 2, .	1.3	11
188	Estimating Quantum and Private Capacities of Gaussian Channels via Degradable Extensions. <i>Physical Review Letters</i> , 2021, 127, 210501.	2.9	11
189	Edge channel mixing induced by potential steps in an integer quantum Hall system. <i>Physical Review B</i> , 2011, 83, .	1.1	10
190	Interactions in Electronic Mach-Zehnder Interferometers with Copropagating Edge Channels. <i>Physical Review Letters</i> , 2013, 111, 036801.	2.9	10
191	Classical capacity of Gaussian thermal memory channels. <i>Physical Review A</i> , 2014, 90, .	1.0	10
192	Optimal quantum state discrimination via nested binary measurements. <i>Physical Review A</i> , 2017, 95, .	1.0	10
193	Versatile Gaussian probes for squeezing estimation. <i>Physical Review A</i> , 2017, 95, .	1.0	10
194	Interferometric quantum cascade systems. <i>Physical Review A</i> , 2017, 95, .	1.0	10
195	Two-parameter Hong-Ou-Mandel dip. <i>Scientific Reports</i> , 2019, 9, 10821.	1.6	10
196	Bosonic Quantum Communication Across Arbitrarily High Loss Channels. <i>Physical Review Letters</i> , 2020, 125, 110504.	2.9	10
197	Squeezing-enhanced communication without a phase reference. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 5, 608.	0.0	10
198	Qubit quantum channels: A characteristic function approach. <i>Physical Review A</i> , 2007, 76, .	1.0	9

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199	INFORMATION TRANSFER RATES IN SPIN QUANTUM CHANNELS. International Journal of Quantum Information, 2007, 05, 439-455.	0.6	9
200	Spin chain model for correlated quantum channels. New Journal of Physics, 2008, 10, 115009.	1.2	9
201	High-fidelity state transfer in binary-tree spin networks. Physical Review A, 2009, 79, .	1.0	9
202	Entanglement renormalization and boundary critical phenomena. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, L03001.	0.9	9
203	Coherent Detection of Electron Dephasing. Physical Review Letters, 2010, 104, 170403.	2.9	9
204	Amendable Gaussian channels: Restoring entanglement via a unitary filter. Physical Review A, 2013, 87, .	1.0	9
205	Entanglement-saving channels. Journal of Mathematical Physics, 2016, 57, .	0.5	9
206	Modulated phases of graphene quantum Hall polariton fluids. Nature Communications, 2016, 7, 13355.	5.8	9
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