

# 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	Quantum collision models: Open system dynamics from repeated interactions. <i>Physics Reports</i> , 2022, 954, 1-70.	10.3	68
2	Quantum capacity analysis of multi-level amplitude damping channels. <i>Communications Physics</i> , 2021, 4, .	2.0	15
3	Incompatibility in quantum parameter estimation. <i>New Journal of Physics</i> , 2021, 23, 063055.	1.2	21
4	Maximum-power heat engines and refrigerators in the fast-driving regime. <i>Physical Review A</i> , 2021, 104, .	1.0	18
5	Agnostic Dolinar receiver for coherent-state classification. <i>Physical Review A</i> , 2021, 104, .	1.0	2
6	Quantum Energy Lines and the Optimal Output Ergotropy Problem. <i>Physical Review Letters</i> , 2021, 127, 210601.	2.9	6
7	Estimating Quantum and Private Capacities of Gaussian Channels via Degradable Extensions. <i>Physical Review Letters</i> , 2021, 127, 210501.	2.9	11
8	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
9	Theory of photon condensation in a spatially varying electromagnetic field. <i>Physical Review B</i> , 2020, 102, .	1.1	62
10	Performance of Gaussian encodings for classical communication on correlated quantum phase-noise channels. , 2020, , .		0
11	Bosonic Quantum Communication Across Arbitrarily High Loss Channels. <i>Physical Review Letters</i> , 2020, 125, 110504.	2.9	10
12	Quantum Flags and New Bounds on the Quantum Capacity of the Depolarizing Channel. <i>Physical Review Letters</i> , 2020, 125, 020503.	2.9	19
13	Beyond the Swap Test: Optimal Estimation of Quantum State Overlap. <i>Physical Review Letters</i> , 2020, 124, 060503.	2.9	25
14	Discrimination of thermal baths by single-qubit probes. <i>Physical Review Research</i> , 2020, 2, .	1.3	11
15	Two-parameter Hong-Ou-Mandel dip. <i>Scientific Reports</i> , 2019, 9, 10821.	1.6	10
16	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
17	Quantum bath statistics tagging. <i>Physical Review A</i> , 2019, 100, .	1.0	5
18	Optimal Universal Learning Machines for Quantum State Discrimination. <i>IEEE Transactions on Information Theory</i> , 2019, 65, 5931-5944.	1.5	16

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19	Quantum-capacity bounds in spin-network communication channels. <i>Physical Review A</i> , 2019, 100, .	1.0	4
20	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
21	Charger-mediated energy transfer for quantum batteries: An open-system approach. <i>Physical Review B</i> , 2019, 99, .	1.1	108
22	Extractable Work, the Role of Correlations, and Asymptotic Freedom in Quantum Batteries. <i>Physical Review Letters</i> , 2019, 122, 047702.	2.9	172
23	Optimal quantum subtracting machine. <i>Physical Review A</i> , 2019, 99, .	1.0	0
24	Non-Markov enhancement of maximum power for quantum thermal machines. <i>Physical Review A</i> , 2019, 99, .	1.0	43
25	Degradation of entanglement in Markovian noise. <i>Physical Review A</i> , 2019, 99, .	1.0	4
26	All-optical implementation of collision-based evolutions of open quantum systems. <i>Scientific Reports</i> , 2019, 9, 3205.	1.6	36
27	Optimal Gaussian metrology for generic multimode interferometric circuit. <i>New Journal of Physics</i> , 2019, 21, 033014.	1.2	19
28	Bridging thermodynamics and metrology in nonequilibrium quantum thermometry. <i>Physical Review A</i> , 2018, 98, .	1.0	37
29	Charger-mediated energy transfer in exactly solvable models for quantum batteries. <i>Physical Review B</i> , 2018, 98, .	1.1	113
30	Variational approach to the optimal control of coherently driven, open quantum system dynamics. <i>Physical Review A</i> , 2018, 98, .	1.0	12
31	Entropy production and asymptotic factorization via thermalization: A collisional model approach. <i>Physical Review A</i> , 2018, 98, .	1.0	35
32	Gaussian optimizers for entropic inequalities in quantum information. <i>Journal of Mathematical Physics</i> , 2018, 59, .	0.5	20
33	Entanglement protection via periodic environment resetting in continuous-time quantum-dynamical processes. <i>Physical Review A</i> , 2018, 98, .	1.0	4
34	Dynamical approach to ancilla-assisted quantum thermometry. <i>Physical Review A</i> , 2018, 98, .	1.0	23
35	Narrow bounds for the quantum capacity of thermal attenuators. <i>Nature Communications</i> , 2018, 9, 4339.	5.8	33
36	Asymmetric information capacities of reciprocal pairs of quantum channels. <i>Physical Review A</i> , 2018, 97, .	1.0	1

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37	The One-Mode Quantum-Limited Gaussian Attenuator and Amplifier Have Gaussian Maximizers. <i>Annales Henri Poincare</i> , 2018, 19, 2919-2953.	0.8	6
38	Optimal thermodynamic control in open quantum systems. <i>Physical Review A</i> , 2018, 98, .	1.0	32
39	Interferometric modulation of quantum cascade interactions. <i>Physical Review A</i> , 2018, 97, .	1.0	8
40	Optimal quantum state discrimination via nested binary measurements. <i>Physical Review A</i> , 2017, 95, .	1.0	10
41	Amending entanglement-breaking channels via intermediate unitary operations. <i>Physical Review A</i> , 2017, 96, .	1.0	9
42	Optimal Continuous Variable Quantum Teleportation with Limited Resources. <i>Physical Review Letters</i> , 2017, 119, 120503.	2.9	39
43	Versatile Gaussian probes for squeezing estimation. <i>Physical Review A</i> , 2017, 95, .	1.0	10
44	Estimating temperature via sequential measurements. <i>Physical Review A</i> , 2017, 96, .	1.0	41
45	Capacity of coherent-state adaptive decoders with interferometry and single-mode detectors. <i>Physical Review A</i> , 2017, 96, .	1.0	9
46	Slow Dynamics and Thermodynamics of Open Quantum Systems. <i>Physical Review Letters</i> , 2017, 119, 050601.	2.9	117
47	Gaussian States Minimize the Output Entropy of One-Mode Quantum Gaussian Channels. <i>Physical Review Letters</i> , 2017, 118, 160503.	2.9	24
48	Locally optimal symplectic control of multimode Gaussian states. <i>Quantum Science and Technology</i> , 2017, 2, 044014.	2.6	3
49	Lindbladian purification. <i>Quantum Science and Technology</i> , 2017, 2, 024001.	2.6	1
50	Cut-and-paste restoration of entanglement transmission. <i>Physical Review A</i> , 2017, 96, .	1.0	12
51	Interferometric quantum cascade systems. <i>Physical Review A</i> , 2017, 95, .	1.0	10
52	Optimal processes for probabilistic work extraction beyond the second law. <i>Scientific Reports</i> , 2016, 6, 29282.	1.6	13
53	Multiphase Hadamard receivers for classical communication on lossy bosonic channels. <i>Physical Review A</i> , 2016, 94, .	1.0	17
54	Entanglement-saving channels. <i>Journal of Mathematical Physics</i> , 2016, 57, .	0.5	9

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55	Passive States Optimize the Output of Bosonic Gaussian Quantum Channels. IEEE Transactions on Information Theory, 2016, 62, 2895-2906.	1.5	31
56	Building versatile bipartite probes for quantum metrology. New Journal of Physics, 2016, 18, 013049.	1.2	17
57	Universal control induced by noise. Physical Review A, 2016, 93, .	1.0	11
58	Coherent-state discrimination via nonheralded probabilistic amplification. Physical Review A, 2016, 93, .	1.0	22
59	Passive states as optimal inputs for single-jump lossy quantum channels. Physical Review A, 2016, 93, .	1.0	12
60	Modulated phases of graphene quantum Hall polariton fluids. Nature Communications, 2016, 7, 13355.	5.8	9
61	Local quantum thermal susceptibility. Nature Communications, 2016, 7, 12782.	5.8	81
62	Achieving the Holevo bound via a bisection decoding protocol. Journal of Mathematical Physics, 2016, 57, 062204.	0.5	12
63	Two-mode bosonic quantum metrology with number fluctuations. Physical Review A, 2015, 92, .	1.0	13
64	Separation of heat and charge currents for boosted thermoelectric conversion. Physical Review B, 2015, 91, .	1.1	45
65	Quantum time. Physical Review D, 2015, 92, .	1.6	106
66	Gaussian discriminating strength. Physical Review A, 2015, 92, .	1.0	21
67	Necessity of Eigenstate Thermalization. Physical Review Letters, 2015, 115, 220401.	2.9	38
68	Hamiltonian purification. Journal of Mathematical Physics, 2015, 56, .	0.5	6
69	Entanglement-breaking indices. Journal of Mathematical Physics, 2015, 56, .	0.5	14
70	Quantum estimation via sequential measurements. New Journal of Physics, 2015, 17, 113055.	1.2	20
71	The time as an emergent property of quantum mechanics, a synthetic description of a first experimental approach. Journal of Physics: Conference Series, 2015, 626, 012019.	0.3	3
72	Magnetic thermal switch for heat management at the nanoscale. Physical Review B, 2015, 91, .	1.1	24

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73	Mutual information as an order parameter for quantum synchronization. <i>Physical Review A</i> , 2015, 91, .	1.0	99
74	Thermopower of three-terminal topological superconducting systems. <i>Physical Review B</i> , 2015, 91, .	1.1	19
75	Logic circuits from zero forcing. <i>Natural Computing</i> , 2015, 14, 485-490.	1.8	27
76	Multimode quantum entropy power inequality. <i>Physical Review A</i> , 2015, 91, .	1.0	25
77	All-optical non-Markovian stroboscopic quantum simulator. <i>Physical Review A</i> , 2015, 91, .	1.0	50
78	Generating quantum discord between two distant Bose-Einstein condensates with Bell-like detection. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 798.	0.9	8
79	A Solution of Gaussian Optimizer Conjecture for Quantum Channels. <i>Communications in Mathematical Physics</i> , 2015, 334, 1553-1571.	1.0	85
80	Majorization and additivity for multimode bosonic Gaussian channels. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2015, 182, 284-293.	0.3	34
81	Perturbative approach to continuous-time quantum error correction. <i>Physical Review A</i> , 2015, 91, .	1.0	12
82	Heat flux and quantum correlations in dissipative cascaded systems. <i>Physical Review A</i> , 2015, 91, .	1.0	43
83	Quantum optomechanical piston engines powered by heat. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 175501.	0.6	47
84	Efficiency of quantum controlled non-Markovian thermalization. <i>New Journal of Physics</i> , 2015, 17, 063031.	1.2	32
85	Normal form decomposition for Gaussian-to-Gaussian superoperators. <i>Journal of Mathematical Physics</i> , 2015, 56, 052202.	0.5	22
86	Nanoscale Mach-Zehnder interferometer with spin-resolved quantum Hall edge states. <i>Physical Review B</i> , 2015, 92, .	1.1	14
87	Discriminating strength: a bona fide measure of non-classical correlations. <i>New Journal of Physics</i> , 2014, 16, 073010.	1.2	31
88	Toward computability of trace distance discord. <i>New Journal of Physics</i> , 2014, 16, 013038.	1.2	133
89	Classical capacity of Gaussian thermal memory channels. <i>Physical Review A</i> , 2014, 90, .	1.0	10
90	Theory of integer quantum Hall polaritons in graphene. <i>Physical Review B</i> , 2014, 89, .	1.1	19

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91	Time-optimal thermalization of single-mode Gaussian states. <i>Physical Review A</i> , 2014, 90, .	1.0	12
92	Quantum simulation of bosonic-fermionic noninteracting particles in disordered systems via a quantum walk. <i>Physical Review A</i> , 2014, 89, .	1.0	28
93	Exponential rise of dynamical complexity in quantum computing through projections. <i>Nature Communications</i> , 2014, 5, 5173.	5.8	38
94	Quantum channels and memory effects. <i>Reviews of Modern Physics</i> , 2014, 86, 1203-1259.	16.4	232
95	Quantum quenches, linear response and superfluidity out of equilibrium. <i>Europhysics Letters</i> , 2014, 107, 30002.	0.7	13
96	Quantum state majorization at the output of bosonic Gaussian channels. <i>Nature Communications</i> , 2014, 5, 3826.	5.8	69
97	Time from quantum entanglement: An experimental illustration. <i>Physical Review A</i> , 2014, 89, .	1.0	84
98	Steady-state entanglement activation in optomechanical cavities. <i>Physical Review A</i> , 2014, 89, .	1.0	21
99	Thermoelectric efficiency of three-terminal quantum thermal machines. <i>New Journal of Physics</i> , 2014, 16, 085001.	1.2	84
100	Ultimate classical communication rates of quantum optical channels. <i>Nature Photonics</i> , 2014, 8, 796-800.	15.6	147
101	A generalization of the entropy power inequality to bosonic quantum systems. <i>Nature Photonics</i> , 2014, 8, 958-964.	15.6	35
102	Quantum Discord Determines the Interferometric Power of Quantum States. <i>Physical Review Letters</i> , 2014, 112, .	2.9	204
103	Dual- and Multi-rail Encoding. , 2014, , 87-122.		0
104	Measures of Quantum Synchronization in Continuous Variable Systems. <i>Physical Review Letters</i> , 2013, 111, 103605.	2.9	207
105	Electromagnetic channel capacity for practical purposes. <i>Nature Photonics</i> , 2013, 7, 834-838.	15.6	17
106	Speeding up and slowing down the relaxation of a qubit by optimal control. <i>Physical Review A</i> , 2013, 88, .	1.0	75
107	Anderson localization of entangled photons in an integrated quantum walk. <i>Nature Photonics</i> , 2013, 7, 322-328.	15.6	372
108	Collision-model-based approach to non-Markovian quantum dynamics. <i>Physical Review A</i> , 2013, 87, .	1.0	129

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109	Non-Abelian phases from quantum Zeno dynamics. <i>Physical Review A</i> , 2013, 88, .	1.0	12
110	Thermodynamics of discrete quantum processes. <i>New Journal of Physics</i> , 2013, 15, 033022.	1.2	73
111	Selective writing and read-out of a register of static qubits. <i>New Journal of Physics</i> , 2013, 15, 043012.	1.2	2
112	A quantum non-Markovian collision model: incoherent swap case. <i>Physica Scripta</i> , 2013, T153, 014010.	1.2	34
113	Topological pumping in the one-dimensional Bose-Hubbard model. <i>Physical Review B</i> , 2013, 87, .	1.1	17
114	Efficient Universal Blind Quantum Computation. <i>Physical Review Letters</i> , 2013, 111, 230501.	2.9	59
115	Interactions in Electronic Mach-Zehnder Interferometers with Copropagating Edge Channels. <i>Physical Review Letters</i> , 2013, 111, 036801.	2.9	10
116	Anderson localization of bosonic and fermionic two-particle systems with integrated optics. , 2013, , .		0
117	Coherent edge mixing and interferometry in quantum Hall bilayers. <i>Physical Review B</i> , 2013, 87, .	1.1	2
118	Quantum reading capacity under thermal and correlated noise. <i>Physical Review A</i> , 2013, 87, .	1.0	17
119	Quantum parameter estimation affected by unitary disturbance. <i>Physical Review A</i> , 2013, 88, .	1.0	28
120	Amendable Gaussian channels: Restoring entanglement via a unitary filter. <i>Physical Review A</i> , 2013, 87, .	1.0	9
121	Minimal Self-Contained Quantum Refrigeration Machine Based on Four Quantum Dots. <i>Physical Review Letters</i> , 2013, 110, 256801.	2.9	107
122	MATRIX PRODUCT STATE REPRESENTATION FOR SLATER DETERMINANTS AND CONFIGURATION INTERACTION STATES. <i>International Journal of Modern Physics B</i> , 2013, 27, 1345029.	1.0	6
123	Ergodic and mixing quantum channels in finite dimensions. <i>New Journal of Physics</i> , 2013, 15, 073045.	1.2	53
124	Towards an Electronic Interferometer based on Spin-Resolved Quantum Hall Edge States. <i>Journal of Physics: Conference Series</i> , 2013, 456, 012019.	0.3	4
125	Entanglement-assisted tomography of a quantum target. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 105309.	0.7	3
126	Master Equations for Correlated Quantum Channels. <i>Physical Review Letters</i> , 2012, 108, 040401.	2.9	105



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127	Imaging backscattering through impurity-induced antidots in quantum Hall constrictions. Physical Review B, 2012, 86, .	1.1	15
128	Achieving the Holevo bound via sequential measurements. Physical Review A, 2012, 85, .	1.0	26
129	Creating quantum correlations through local nonunitary memoryless channels. Physical Review A, 2012, 85, .	1.0	88
130	Phase Estimation via Quantum Interferometry for Noisy Detectors. Physical Review Letters, 2012, 108, 233602.	2.9	39
131	Probing Cooper pairs with Franson interferometry. Physical Review B, 2012, 86, .	1.1	5
132	Statistical distribution of the local purity in a large quantum system. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 015308.	0.7	23
133	Drude Weight, Cyclotron Resonance, and the Dicke Model of Graphene Cavity QED. Physical Review Letters, 2012, 109, 267404.	2.9	48
134	Local-channel-induced rise of quantum correlations in continuous-variable systems. Physical Review A, 2012, 85, .	1.0	32
135	Capacities of linear quantum optical systems. Physical Review A, 2012, 85, .	1.0	7
136	High-fidelity quantum driving. Nature Physics, 2012, 8, 147-152.	6.5	382
137	Teleportation transfers only speakable quantum information. Physical Review A, 2012, 86, .	1.0	12
138	Sub-Heisenberg Estimation Strategies Are Ineffective. Physical Review Letters, 2012, 108, 210404.	2.9	70
139	Enhancing quantum effects via periodic modulations in optomechanical systems. Physical Review A, 2012, 86, .	1.0	96
140	Quantifying the noise of a quantum channel by noise addition. Physical Review A, 2012, 86, .	1.0	15
141	Master equation for cascade quantum channels: a collisional approach. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 154003.	0.6	35
142	Proposal for a Datta-Das transistor in the quantum Hall regime. Physical Review B, 2012, 85, .	1.1	16
143	Quantum Measurement Bounds beyond the Uncertainty Relations. Physical Review Letters, 2012, 108, 260405.	2.9	46
144	Quantum channels and their entropic characteristics. Reports on Progress in Physics, 2012, 75, 046001.	8.1	124

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145	Quantum mechanics of time travel through post-selected teleportation. <i>Physical Review D</i> , 2011, 84, .	1.6	69
146	Sequential Projective Measurements for Channel Decoding. <i>Physical Review Letters</i> , 2011, 106, 250501.	2.9	35
147	Advances in quantum metrology. <i>Nature Photonics</i> , 2011, 5, 222-229.	15.6	2,567
148	Beauty and the noisy beast. <i>Nature Physics</i> , 2011, 7, 376-377.	6.5	23
149	Closed Timelike Curves via Postselection: Theory and Experimental Test of Consistency. <i>Physical Review Letters</i> , 2011, 106, 040403.	2.9	104
150	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
151	Quantitative entanglement witnesses of isotropic and Werner classes via local measurements. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 145303.	0.7	4
152	Quantum reading capacity. <i>New Journal of Physics</i> , 2011, 13, 113012.	1.2	60
153	Spatially resolved analysis of edge-channel equilibration in quantum Hall circuits. <i>Physical Review B</i> , 2011, 83, .	1.1	27
154	Optimal unitary dilation for bosonic Gaussian channels. <i>Physical Review A</i> , 2011, 84, .	1.0	24
155	Enhanced quantum communication via optical refocusing. <i>Physical Review A</i> , 2011, 84, .	1.0	8
156	Time-bin entanglement of quasiparticles in semiconductor devices. <i>Physical Review B</i> , 2011, 84, .	1.1	5
157	Edge channel mixing induced by potential steps in an integer quantum Hall system. <i>Physical Review B</i> , 2011, 83, .	1.1	10
158	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
159	Controlled Coupling of Spin-Resolved Quantum Hall Edge States. <i>Physical Review Letters</i> , 2011, 107, 236804.	2.9	49
160	Entanglement renormalization and boundary critical phenomena. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, L03001.	0.9	9
161	Communication at the quantum speed limit along a spin chain. <i>Physical Review A</i> , 2010, 82, .	1.0	86
162	Quantum Private Queries: Security Analysis. <i>IEEE Transactions on Information Theory</i> , 2010, 56, 3465-3477.	1.5	76

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163	Capacities of Lossy Bosonic Memory Channels. <i>Physical Review Letters</i> , 2010, 104, 030501.	2.9	33
164	Coherent Detection of Electron Dephasing. <i>Physical Review Letters</i> , 2010, 104, 170403.	2.9	9
165	Electronic implementations of interaction-free measurements. <i>Physical Review B</i> , 2010, 82, .	1.1	13
166	Memory effects in attenuation and amplification quantum processes. <i>Physical Review A</i> , 2010, 82, .	1.0	13
167	Quantum defragmentation algorithm. <i>Physical Review A</i> , 2010, 82, .	1.0	1
168	Publisher's Note: Signatures of the superfluid-insulator phase transition in laser-driven dissipative nonlinear cavity arrays [ <i>Phys. Rev. A</i> 81, 061801 (2010)]. <i>Physical Review A</i> , 2010, 82, .	1.0	2
169	Homogeneous binary trees as ground states of quantum critical Hamiltonians. <i>Physical Review A</i> , 2010, 81, .	1.0	40
170	Signatures of the superfluid-insulator phase transition in laser-driven dissipative nonlinear cavity arrays. <i>Physical Review A</i> , 2010, 81, .	1.0	111
171	Homogeneous multiscale entanglement renormalization ansatz tensor networks for quantum critical systems. <i>New Journal of Physics</i> , 2010, 12, 075018.	1.2	6
172	Teleportation-Induced Correlated Quantum Channels. <i>Physical Review Letters</i> , 2010, 104, 020503.	2.9	14
173	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
174	Communication through a quantum link. <i>Physical Review A</i> , 2009, 79, .	1.0	5
175	High-fidelity state transfer in binary-tree spin networks. <i>Physical Review A</i> , 2009, 79, .	1.0	9
176	Critical exponents with a multiscale entanglement renormalization Ansatz channel. <i>Physical Review B</i> , 2009, 80, .	1.1	22
177	Homogeneous multiscale-entanglement-renormalization-ansatz states: An information theoretical analysis. <i>Physical Review A</i> , 2009, 79, .	1.0	19
178	Experimental quantum private queries with linear optics. <i>Physical Review A</i> , 2009, 80, .	1.0	67
179	Publisher's Note: Sub-Rayleigh-diffraction-bound quantum imaging [ <i>Phys. Rev. A</i> 79, 013827 (2009)]. <i>Physical Review A</i> , 2009, 79, .	1.0	1
180	Improved resolution in imaging through quantum post-selection. , 2009, , .		0

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181	Characterizing electron entanglement in multi-mode mesoscopic conductors. , 2009, , .		0
182	The quantum-optical Josephson interferometer. Nature Physics, 2009, 5, 281-284.	6.5	171
183	Local controllability of quantum networks. Physical Review A, 2009, 79, .	1.0	72
184	Optimal Control at the Quantum Speed Limit. Physical Review Letters, 2009, 103, 240501.	2.9	372
185	Sub-Rayleigh-diffraction-bound quantum imaging. Physical Review A, 2009, 79, .	1.0	91
186	Efficient generation of a maximally entangled state by repeated on- and off-resonant scattering of ancilla qubits. New Journal of Physics, 2009, 11, 123027.	1.2	19
187	Quantum Shared Broadcasting. Quantum Information Processing, 2008, 7, 55-69.	1.0	5
188	Quantum Illumination with Gaussian States. Physical Review Letters, 2008, 101, 253601.	2.9	495
189	Architectures for a quantum random access memory. Physical Review A, 2008, 78, .	1.0	174
190	Quantum Random Access Memory. Physical Review Letters, 2008, 100, 160501.	2.9	519
191	Quantum Multiscale Entanglement Renormalization Ansatz Channels. Physical Review Letters, 2008, 101, 180503.	2.9	74
192	Spin chain model for correlated quantum channels. New Journal of Physics, 2008, 10, 115009.	1.2	9
193	A NEW APPROACH TO CHARACTERIZE QUBIT CHANNELS. International Journal of Quantum Information, 2008, 06, 621-626.	0.6	1
194	Multi-mode bosonic Gaussian channels. New Journal of Physics, 2008, 10, 083030.	1.2	70
195	Qubit channels with small correlations. Physical Review A, 2008, 77, .	1.0	12
196	Multichannel architecture for electronic quantum Hall interferometry. Physical Review B, 2008, 77, .	1.1	25
197	Publisher's Note: Qubit channels with small correlations [Phys. Rev. A77, 052323 (2008)]. Physical Review A, 2008, 77, .	1.0	0
198	Quantum Private Queries. Physical Review Letters, 2008, 100, 230502.	2.9	162

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199	Decoherence by engineered quantum baths. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 8033-8040.	0.7	35
200	The generalized Lyapunov theorem and its application to quantum channels. New Journal of Physics, 2007, 9, 150-150.	1.2	33
201	Optimal quantum-chain communication by end gates. Physical Review A, 2007, 75, .	1.0	68
202	Mediated homogenization. Physical Review A, 2007, 76, .	1.0	23
203	Characterizing electron entanglement in multiterminal mesoscopic conductors. Physical Review B, 2007, 75, .	1.1	16
204	Full Control by Locally Induced Relaxation. Physical Review Letters, 2007, 99, 100501.	2.9	123
205	Qubit quantum channels: A characteristic function approach. Physical Review A, 2007, 76, .	1.0	9
206	Decoherence induced by interacting quantum spin baths. Physical Review A, 2007, 75, .	1.0	182
207	INFORMATION TRANSFER RATES IN SPIN QUANTUM CHANNELS. International Journal of Quantum Information, 2007, 05, 439-455.	0.6	9
208	Quantum Metrology. Physical Review Letters, 2006, 96, 010401.	2.9	1,629
209	Interferometric tunability of absorption. Optics Express, 2006, 14, 8622.	1.7	1
210	Entanglement and statistics in Hong-Ou-Mandel interferometry. Laser Physics, 2006, 16, 1406-1410.	0.6	7
211	Robustness of optimal working points for nonadiabatic holonomic quantum computation. Laser Physics, 2006, 16, 1478-1485.	0.6	5
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