Jens Eisert

List of Publications by Year
in descending order

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283	22,996	12322 69	9579 142
papers	citations	h-index	g-index

290	290	290	9552
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hierarchical isometry properties of hierarchical measurements. Applied and Computational Harmonic Analysis, 2022, 58, 27-49.	1.1	4
2	Quantum computational advantage via high-dimensional Gaussian boson sampling. Science Advances, 2022, 8, eabi7894.	4.7	50
3	Linear growth of quantum circuit complexity. Nature Physics, 2022, 18, 528-532.	6.5	50
4	Mechanisms for the emergence of Gaussian correlations. SciPost Physics, 2022, 12, .	1.5	3
5	Boundary theories of critical matchgate tensor networks. Journal of High Energy Physics, 2022, 2022, .	1.6	3
6	Single-component gradient rules for variational quantum algorithms. Quantum Science and Technology, 2022, 7, 035008.	2.6	1
7	Rate limits in quantum networks with lossy repeaters. Physical Review Research, 2022, 4, .	1.3	4
8	General Framework for Randomized Benchmarking. PRX Quantum, 2022, 3, .	3.5	26
9	Transparent reporting of research-related greenhouse gas emissions through the scientific CO2nduct initiative. Communications Physics, 2022, 5, .	2.0	7
10	Simulating quantum repeater strategies for multiple satellites. Communications Physics, 2022, 5, .	2.0	16
11	Limitations of nearest-neighbor quantum networks. Physical Review A, 2022, 106, .	1.0	2
12	Reinforcement learning decoders for fault-tolerant quantum computation. Machine Learning: Science and Technology, 2021, 2, 025005.	2.4	30
13	Decay and recurrence of non-Gaussian correlations in a quantum many-body system. Nature Physics, 2021, 17, 559-563.	6.5	26
14	Bounding the resources for thermalizing many-body localized systems. Communications Physics, 2021, 4, .	2.0	5
15	Pinned quantum Merlin-Arthur: The power of fixing a few qubits in proofs. Physical Review A, 2021, 103, .	1.0	0
16	Local optimization on pure Gaussian state manifolds. SciPost Physics, 2021, 10, .	1.5	8
17	Quantum time crystals with programmable disorder in higher dimensions. Physical Review B, 2021, 103, .	1.1	13
18	A variational toolbox for quantum multi-parameter estimation. Npj Quantum Information, 2021, 7, .	2.8	42

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19	Holographic tensor network models and quantum error correction: a topical review. Quantum Science and Technology, 2021, 6, 033002.	2.6	32
20	Hierarchical Sparse Recovery from Hierarchically Structured Measurements with Application to Massive Random Access. , 2021, , .		0
21	Entangling Power and Quantum Circuit Complexity. Physical Review Letters, 2021, 127, 020501.	2.9	15
22	Quantum Field Thermal Machines. PRX Quantum, 2021, 2, .	3.5	29
23	Recovering Quantum Correlations in Optical Lattices from Interaction Quenches. Physical Review Letters, 2021, 127, 090503.	2.9	3
24	Effective dimension reduction with mode transformations: Simulating two-dimensional fermionic condensed matter systems with matrix-product states. Physical Review B, 2021, 104, .	1.1	5
25	Emergent Statistical Mechanics from Properties of Disordered Random Matrix Product States. PRX Quantum, 2021, 2, .	3.5	8
26	The classical two-dimensional Heisenberg model revisited: An $SU(2)$-symmetric tensor network study. SciPost Physics, 2021, 11, .	1.5	6
27	Sharing Classical Secrets with Continuous-Variable Entanglement: Composable Security and Network Coding Advantage. PRX Quantum, 2021, 2, .	3.5	10
28	Tensor network investigation of the double layer Kagome compound Ca10Cr7O28. Annals of Physics, 2020, 421, 168292.	1.0	18
29	Central charges of aperiodic holographic tensor-network models. Physical Review A, 2020, 102, .	1.0	10
30	Easing the Monte Carlo sign problem. Science Advances, 2020, 6, eabb8341.	4.7	45
31	Dynamical structure factors of dynamical quantum simulators. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26123-26134.	3.3	14
32	Rates of Multipartite Entanglement Transformations. Physical Review Letters, 2020, 125, 080502.	2.9	9
33	Stark time crystals: Symmetry breaking in space and time. Physical Review B, 2020, 102, .	1.1	15
34	Time evolution of many-body localized systems in two spatial dimensions. Physical Review B, 2020, 102, .	1.1	35
35	Floquet Engineering Topological Many-Body Localized Systems. Physical Review Letters, 2020, 124, 190601.	2.9	24
36	Quantum certification and benchmarking. Nature Reviews Physics, 2020, 2, 382-390.	11.9	162

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37	Reliable Recovery of Hierarchically Sparse Signals for Gaussian and Kronecker Product Measurements. IEEE Transactions on Signal Processing, 2020, 68, 4002-4016.	3.2	9
38	Entanglement and spectra in topological many-body localized phases. Physical Review B, 2020, 101, .	1.1	8
39	Quantum read-out for cold atomic quantum simulators. Communications Physics, 2020, 3, .	2.0	11
40	Closing Gaps of a Quantum Advantage with Short-Time Hamiltonian Dynamics. Physical Review Letters, 2020, 125, 250501.	2.9	14
41	Contracting projected entangled pair states is average-case hard. Physical Review Research, 2020, 2, .	1.3	28
42	Harnessing symmetry-protected topological order for quantum memories. Physical Review Research, 2020, 2, .	1.3	7
43	Stationary optomechanical entanglement between a mechanical oscillator and its measurement apparatus. Physical Review Research, 2020, 2, .	1.3	21
44	Randomized Benchmarking for Individual Quantum Gates. Physical Review Letters, 2019, 123, 060501.	2.9	26
45	Holography and criticality in matchgate tensor networks. Science Advances, 2019, 5, eaaw0092.	4.7	26
46	Experimentally Accessible Witnesses of Many-Body Localization. Quantum Reports, 2019, 1, 50-62.	0.6	5
47	Liebâ€“Robinson bounds for open quantum systems with long-ranged interactions. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 424003.	0.7	13
48	Entanglement-Ergodic Quantum Systems Equilibrate Exponentially Well. Physical Review Letters, 2019, 123, 200604.	2.9	35
49	Quantum network routing and local complementation. Npj Quantum Information, 2019, 5, .	2.8	56
50	Exploration of the stability of many-body localized systems in the presence of a small bath. Physical Review B, 2019, 99, .	1.1	30
51	Multidimensional Approximation of Nonlinear Dynamical Systems. Journal of Computational and Nonlinear Dynamics, 2019, 14, .	0.7	31
52	Von Neumann Entropy from Unitarity. Physical Review Letters, 2019, 122, 210402.	2.9	39
53	Sample Complexity of Device-Independently Certified â€œQuantum Supremacyâ€• Physical Review Letters, 2019, 122, 210502.	2.9	23
54	Single-Shot Holographic Compression from the Area Law. Physical Review Letters, 2019, 122, 190501.	2.9	4

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55	Quantum work statistics and resource theories: Bridging the gap through RÃ©nyi divergences. Physical Review E, 2019, 99, 050101.	0.8	14
56	Simulating topological tensor networks with Majorana qubits. Physical Review B, 2019, 99, .	1.1	15
57	Tensor Network Annealing Algorithm for Two-Dimensional Thermal States. Physical Review Letters, 2019, 122, 070502.	2.9	50
58	Majorana dimers and holographic quantum error-correcting codes. Physical Review Research, 2019, 1, .	1.3	18
59	Complexity and entanglement for thermofield double states. SciPost Physics, 2019, 6, .	1.5	142
60	Edge mode locality in perturbed symmetry protected topological order. SciPost Physics, 2019, 6, .	1.5	5
61	Equilibration towards generalized Gibbs ensembles in non-interacting theories. SciPost Physics, 2019, 7, .	1.5	23
62	Uncertainty Quantification for Matrix Compressed Sensing and Quantum Tomography Problems. Progress in Probability, 2019, , 385-430.	0.3	7
63	Quantum thermodynamics with local control. Physical Review E, 2018, 97, 022142.	0.8	22
64	Construction of exact constants of motion and effective models for many-body localized systems. Physical Review B, 2018, 97, .	1.1	30
65	Architectures for Quantum Simulation Showing a Quantum Speedup. Physical Review X, 2018, 8, .	2.8	54
66	Entanglement negativity bounds for fermionic Gaussian states. Physical Review B, 2018, 97, .	1.1	43
67	Strong Coupling Corrections in Quantum Thermodynamics. Physical Review Letters, 2018, 120, 120602.	2.9	84
68	Statistical ensembles without typicality. Nature Communications, 2018, 9, 1022.	5.8	5
69	More extended indication of DAA therapy in patients with HCC, affordability, and further statistical considerations. Journal of Hepatology, 2018, 68, 218-219.	1.8	1
70	Validation of Essential Acoustic Parameters for Highly Urgent In-Vehicle Collision Warnings. Human Factors, 2018, 60, 248-261.	2.1	10
71	Equilibration Times in Closed Quantum Many-Body Systems. Fundamental Theories of Physics, 2018, , 435-455.	0.1	7
72	Hierarchical restricted isometry property for Kronecker product measurements. , 2018, , .		8

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73	Recovering Quantum Gates from Few Average Gate Fidelities. Physical Review Letters, 2018, 121, 170502.	2.9	37
74	Catalytic Quantum Randomness. Physical Review X, 2018, 8, .	2.8	16
75	Secure massive IoT using hierarchical fast blind deconvolution. , 2018, , .		4
76	Fidelity Witnesses for Fermionic Quantum Simulations. Physical Review Letters, 2018, 120, 190501.	2.9	28
77	What it takes to avoid equilibration. Physical Review A, 2018, 98, .	1.0	8
78	The quantum technologies roadmap: a European community view. New Journal of Physics, 2018, 20, 080201.	1.2	358
79	An efficient quantum algorithm for spectral estimation. New Journal of Physics, 2017, 19, 033005.	1.2	8
80	Experimental quantum compressed sensing for a seven-qubit system. Nature Communications, 2017, 8, 15305.	5.8	97
81	Structure of the Resource Theory of Quantum Coherence. Physical Review Letters, 2017, 119, 140402.	2.9	75
82	Fermionic topological quantum states as tensor networks. Physical Review B, 2017, 95, .	1.1	16
83	Mixing Properties of Stochastic Quantum Hamiltonians. Communications in Mathematical Physics, 2017, 355, 905-947.	1.0	28
84	Towards Holography via Quantum Source-Channel Codes. Physical Review Letters, 2017, 119, 020501.	2.9	17
85	Emergence of spontaneous symmetry breaking in dissipative lattice systems. Journal of Mathematical Physics, 2017, 58, .	0.5	14
86	Composite symmetry-protected topological order and effective models. Physical Review B, 2017, 96, .	1.1	3
87	A fermionic de Finetti theorem. Journal of Mathematical Physics, 2017, 58, 122204.	0.5	5
88	Combining Topological Hardware and Topological Software: Color-Code Quantum Computing with Topological Superconductor Networks. Physical Review X, 2017, 7, .	2.8	54
89	Direct certification of a class of quantum simulations. Quantum Science and Technology, 2017, 2, 015004.	2.6	49
90	Experimentally exploring compressed sensing quantum tomography. Quantum Science and Technology, 2017, 2, 025005.	2.6	31

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91	Axiomatic Characterization of the Quantum Relative Entropy and Free Energy. Entropy, 2017, 19, 241.	1.1	29
92	HiHTP: A custom-tailored hierarchical sparse detector for massive MTC. , 2017, , .		5
93	Cellular automaton decoders of topological quantum memories in the fault tolerant setting. New Journal of Physics, 2017, 19, 063012.	1.2	22
94	Approximating local observables on projected entangled pair states. Physical Review A, 2017, 95, .	1.0	11
95	Estimating strong correlations in optical lattices. Physical Review A, 2016, 94, .	1.0	3
96	Thermodynamic work from operational principles. New Journal of Physics, 2016, 18, 103017.	1.2	60
97	Area laws and efficient descriptions of quantum many-body states. New Journal of Physics, 2016, 18, 083026.	1.2	31
98	Equilibration, thermalisation, and the emergence of statistical mechanics in closed quantum systems. Reports on Progress in Physics, 2016, 79, 056001.	8.1	633
99	Improving Compressed Sensing With the Diamond Norm. IEEE Transactions on Information Theory, 2016, 62, 7445-7463.	1.5	13
100	Drude weight fluctuations in many-body localized systems. Physical Review B, 2016, 94, .	1.1	23
101	Second law of thermodynamics under control restrictions. Physical Review E, 2016, 93, 042126.	0.8	39
102	Positive Tensor Network Approach for Simulating Open Quantum Many-Body Systems. Physical Review Letters, 2016, 116, 237201.	2.9	95
103	Renormalizing Entanglement Distillation. Physical Review Letters, 2016, 116, 020502.	2.9	8
104	Diagnosing Topological Edge States via Entanglement Monogamy. Physical Review Letters, 2016, 116, 130501.	2.9	13
105	Fermionic Orbital Optimization in Tensor Network States. Physical Review Letters, 2016, 117, 210402.	2.9	47
106	Equilibration via Gaussification in Fermionic Lattice Systems. Physical Review Letters, 2016, 117, 190602.	2.9	42
107	Work and entropy production in generalised Gibbs ensembles. New Journal of Physics, 2016, 18, 123035.	1.2	33
108	Local constants of motion imply information propagation. New Journal of Physics, 2015, 17, 113054.	1.2	17

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109	Total correlations of the diagonal ensemble herald the many-body localization transition. Physical Review B, 2015, 92, .	1.1	64
110	Reliable quantum certification of photonic state preparations. Nature Communications, 2015, 6, 8498.	5.8	71
111	Cellular-automaton decoders for topological quantum memories. Npj Quantum Information, 2015, 1, .	2.8	38
112	Equilibration in low-dimensional quantum matrix models. Journal of High Energy Physics, 2015, 2015, 1.	1.6	9
113	Continuous matrix product state tomography of quantum transport experiments. New Journal of Physics, 2015, 17, 113024.	1.2	12
114	Limits to catalysis in quantum thermodynamics. New Journal of Physics, 2015, 17, 085004.	1.2	54
115	Mutual information area laws for thermal free fermions. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P02008.	0.9	19
116	Quantum many-body systems out of equilibrium. Nature Physics, 2015, 11, 124-130.	6.5	880
117	Towards experimental quantum-field tomography with ultracold atoms. Nature Communications, 2015, 6, 7663.	5.8	20
118	Many-Body Localization Implies that Eigenvectors are Matrix-Product States. Physical Review Letters, 2015, 114, 170505.	2.9	88
119	Emergence of coherence and the dynamics of quantum phase transitions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3641-3646.	3.3	152
120	Advances in quantum teleportation. Nature Photonics, 2015, 9, 641-652.	15.6	511
121	Observation of non-Markovian micromechanical Brownian motion. Nature Communications, 2015, 6, 7606.	5.8	141
122	Quantum field tomography. New Journal of Physics, 2014, 16, 123010.	1.2	12
123	Search for localized Wannier functions of topological band structures via compressed sensing. Physical Review B, 2014, 90, .	1.1	14
124	Thermal machines beyond the weak coupling regime. New Journal of Physics, 2014, 16, 125009.	1.2	53
125	Matrix-Product Operators and States: NP-Hardness and Undecidability. Physical Review Letters, 2014, 113, 160503.	2.9	40
126	Locality of Temperature. Physical Review X, 2014, 4, .	2.8	107

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127	Topological insulators with arbitrarily tunable entanglement. Physical Review B, 2014, 89, .	1.1	7
128	Effect of Tactile Location, Pulse Duration, and Interpulse Interval on Perceived Urgency. Transportation Research Record, 2014, 2423, 10-14.	1.0	11
129	Lieb-Robinson Bounds and the Simulation of Time-Evolution of Local Observables in Lattice Systems. Letters in Mathematical Physics, 2014, , 301-318.	0.4	23
130	Precisely Timing Dissipative Quantum Information Processing. Physical Review Letters, 2013, 110, 110501.	2.9	47
131	Wickâ€™s Theorem for Matrix Product States. Physical Review Letters, 2013, 110, 040401.	2.9	21
132	Continuous-variable entanglement distillation and noncommutative central limit theorems. Physical Review A, 2013, 87, .	1.0	16
133	Pauli Principle, Reloaded. Physics Magazine, 2013, 6, .	0.1	2
134	Entanglement of nanoelectromechanical oscillators by Cooper-pair tunneling. Physical Review B, 2013, 88, .	1.1	18
135	Breakdown of Quasilocality in Long-Range Quantum Lattice Models. Physical Review Letters, 2013, 111, 260401.	2.9	125
136	Rapid mixing implies exponential decay of correlations. Journal of Mathematical Physics, 2013, 54, .	0.5	39
137	Efficient and feasible state tomography of quantum many-body systems. New Journal of Physics, 2013, 15, 015024.	1.2	52
138	Recursive quantum detector tomography. New Journal of Physics, 2012, 14, 115005.	1.2	38
139	Quantum tomography via compressed sensing: error bounds, sample complexity and efficient estimators. New Journal of Physics, 2012, 14, 095022.	1.2	226
140	Positive Wigner Functions Render Classical Simulation of Quantum Computation Efficient. Physical Review Letters, 2012, 109, 230503.	2.9	267
141	Thermalization in Nature and on a Quantum Computer. Physical Review Letters, 2012, 108, 080402.	2.9	136
142	Extracting Dynamical Equations from Experimental Data is NP Hard. Physical Review Letters, 2012, 108, 120503.	2.9	39
143	Multimodal urgency coding: auditory, visual, and tactile parameters and their impact on perceived urgency. Work, 2012, 41, 3586-3591.	0.6	38
144	Opto- and electro-mechanical entanglement improved by modulation. New Journal of Physics, 2012, 14, 075014.	1.2	56

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145	Efficient measurement-based quantum computing with continuous-variable systems. Physical Review A, 2012, 85, .	1.0	30
146	Cooling by Heating: Very Hot Thermal Light Can Significantly Cool Quantum Systems. Physical Review Letters, 2012, 108, 120602.	2.9	115
147	Gaussification and Entanglement Distillation of Continuous-Variable Systems: A Unifying Picture. Physical Review Letters, 2012, 108, 020501.	2.9	16
148	Probing the relaxation towards equilibrium in an isolated strongly correlated one-dimensional BoseÂgas. Nature Physics, 2012, 8, 325-330.	6.5	762
149	Quantum measurement occurrence is undecidable. Physical Review Letters, 2012, 108, 260501.	2.9	29
150	The Complexity of Relating Quantum Channels to Master Equations. Communications in Mathematical Physics, 2012, 310, 383-418.	1.0	30
151	Experimental Implementation of the Optimal Linear-Optical Controlled Phase Gate. Physical Review Letters, 2011, 106, 013602.	2.9	46
152	Tensor network methods with graph enhancement. Physical Review B, 2011, 84, .	1.1	6
153	Entangled Inputs Cannot Make Imperfect Quantum Channels Perfect. Physical Review Letters, 2011, 106, 230502.	2.9	15
154	Absence of Thermalization in Nonintegrable Systems. Physical Review Letters, 2011, 106, 040401.	2.9	188
155	Concentration of Measure for Quantum States with a Fixed Expectation Value. Communications in Mathematical Physics, 2011, 303, 785-824.	1.0	30
156	Directly Estimating Nonclassicality. Physical Review Letters, 2011, 106, 010403.	2.9	75
157	Information propagation for interacting-particle systems. Physical Review A, 2011, 84, .	1.0	36
158	Optimal unitary dilation for bosonic Gaussian channels. Physical Review A, 2011, 84, .	1.0	24
159	Dissipative Quantum Church-Turing Theorem. Physical Review Letters, 2011, 107, 120501.	2.9	90
160	Experimental Unconditional Preparation and Detection of a Continuous Bound Entangled State of Light. Physical Review Letters, 2011, 107, 240503.	2.9	34
161	Continuity bounds on the quantum relative entropy â€" II. Journal of Mathematical Physics, 2011, 52, .	0.5	30
162	Quantum computational webs. Physical Review A, 2010, 82, .	1.0	38

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163	Unitary circuits for strongly correlated fermions. Physical Review A, 2010, 81, .	1.0	78
164	Real-Space Renormalization Yields Finite Correlations. Physical Review Letters, 2010, 105, 010502.	2.9	22
165	Quantum State Tomography via Compressed Sensing. Physical Review Letters, 2010, 105, 150401.	2.9	708
166	Solving Frustration-Free Spin Systems. Physical Review Letters, 2010, 105, 060504.	2.9	22
167	Focus on Quantum Information and Many-Body Theory. New Journal of Physics, 2010, 12, 025001.	1.2	0
168	A quantum central limit theorem for non-equilibrium systems: exact local relaxation of correlated states. New Journal of Physics, 2010, 12, 055020.	1.2	144
169	Ground states of unfrustrated spin Hamiltonians satisfy an area law. New Journal of Physics, 2010, 12, 095007.	1.2	17
170	On photonic controlled phase gates. New Journal of Physics, 2010, 12, 013003.	1.2	26
171	Entanglement quantification from incomplete measurements: applications using photon-number-resolving weak homodyne detectors. New Journal of Physics, 2010, 12, 033042.	1.2	14
172	Holographic Quantum States. Physical Review Letters, 2010, 105, 260401.	2.9	52
173	Colloquium: Area laws for the entanglement entropy. Reviews of Modern Physics, 2010, 82, 277-306.	16.4	1,945
174	Limitations of quantum computing with Gaussian cluster states. Physical Review A, 2010, 82, .	1.0	74
175	Joint Photon Statistics of Photon-Subtracted Squeezed Light. , 2009, , .		1
176	Renormalization algorithm with graph enhancement. Physical Review A, 2009, 79, .	1.0	14
177	Contraction of fermionic operator circuits and the simulation of strongly correlated fermions. Physical Review A, 2009, 80, .	1.0	108
178	Supersonic Quantum Communication. Physical Review Letters, 2009, 102, 240501.	2.9	39
179	Entanglement Combing. Physical Review Letters, 2009, 103, 220501.	2.9	21
180	Heralded preparation and distillation of entangled light. , 2009, , .		0

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181	Measuring measurement: theory and practice. New Journal of Physics, 2009, 11, 093038.	1.2	73
182	A proposed testbed for detector tomography. Journal of Modern Optics, 2009, 56, 432-441.	0.6	31
183	Covariance matrix criterion for separability. , 2009, , .		3
184	Two-dimensional characterization of spatially entangled photon pairs. Journal of Modern Optics, 2009, 56, 1829-1837.	0.6	11
185	Tomography of quantum detectors. Nature Physics, 2009, 5, 27-30.	6.5	267
186	Gently Modulating Optomechanical Systems. Physical Review Letters, 2009, 103, 213603.	2.9	271
187	Most Quantum States Are Too Entangled To Be Useful As Computational Resources. Physical Review Letters, 2009, 102, 190501.	2.9	203
188	Information propagation through quantum chains with fluctuating disorder. Physical Review A, 2009, 80, .	1.0	41
189	Full characterization of quantum optical detectors. , 2009, , .		0
190	Percolation in quantum computation and. Lecture Notes in Physics, 2009, , 1-33.	0.3	1
191	Gaussian Quantum Marginal Problem. Communications in Mathematical Physics, 2008, 280, 263-280.	1.0	32
192	Assessing Non-Markovian Quantum Dynamics. Physical Review Letters, 2008, 101, 150402.	2.9	477
193	Entangled families. Nature, 2008, 455, 180-181.	13.7	14
194	Unifying several separability conditions using the covariance matrix criterion. Physical Review A, 2008, 78, .	1.0	67
195	PLENARY DEBATE: QUANTUM EFFECTS IN BIOLOGY: TRIVIAL OR NOT?. Fluctuation and Noise Letters, 2008, 08, C5-C26.	1.0	18
196	Multi-mode bosonic Gaussian channels. New Journal of Physics, 2008, 10, 083030.	1.2	70
197	Exploring Local Quantum Many-Body Relaxation by Atoms in Optical Superlattices. Physical Review Letters, 2008, 101, 063001.	2.9	114
198	Do Mixtures of Bosonic and Fermionic Atoms Adiabatically Heat Up in Optical Lattices?. Physical Review Letters, 2008, 100, 140409.	2.9	36

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199	Unifying Variational Methods for Simulating Quantum Many-Body Systems. Physical Review Letters, 2008, 100, 130501.	2.9	39
200	Correlated entanglement distillation and the structure of the set of undistillable states. Journal of Mathematical Physics, 2008, 49, 042102.	0.5	8
201	Probing local relaxation of cold atoms in optical superlattices. Physical Review A, 2008, 78, .	1.0	88
202	Exact Relaxation in a Class of Nonequilibrium Quantum Lattice Systems. Physical Review Letters, 2008, 100, 030602.	2.9	363
203	Quantum margulis expanders. Quantum Information and Computation, 2008, 8, 722-733.	0.1	13
204	Cluster state preparation using gates operating at arbitrary success probabilities. New Journal of Physics, 2007, 9, 200-200.	1.2	17
205	Statistics Dependence of the Entanglement Entropy. Physical Review Letters, 2007, 98, 220603.	2.9	63
206	General linear-optical quantum state generation scheme: Applications to maximally path-entangled states. Physical Review A, 2007, 76, .	1.0	32
207	Percolation, Renormalization, and Quantum Computing with Nondeterministic Gates. Physical Review Letters, 2007, 99, 130501.	2.9	84
208	Covariance Matrices and the Separability Problem. Physical Review Letters, 2007, 99, 130504.	2.9	130
209	Evenly distributed unitaries: On the structure of unitary designs. Journal of Mathematical Physics, 2007, 48, 052104.	0.5	193
210	Measurement-based quantum computation beyond the one-way model. Physical Review A, 2007, 76, .	1.0	140
211	Entanglement scaling in lattice systems. Journal of Physics: Conference Series, 2007, 67, 012021.	0.3	0
212	Minimal resources for linear optical one-way computing. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 184.	0.9	22
213	Quantitative entanglement witnesses. New Journal of Physics, 2007, 9, 46-46.	1.2	176
214	Novel Schemes for Measurement-Based Quantum Computation. Physical Review Letters, 2007, 98, 220503.	2.9	197
215	Creating and Probing Multipartite Macroscopic Entanglement with Light. Physical Review Letters, 2007, 99, 250401.	2.9	267
216	On the experimental feasibility of continuous-variable optical entanglement distillation. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2007, 103, 173-177.	0.2	7

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217	Gaussian Quantum Channels. , 2007, , 23-42.		48
218	Entanglement in Systems of Interacting Harmonic Oscillators. , 2007, , 43-62.		0
219	Entanglement-area law for general bosonic harmonic lattice systems. Physical Review A, 2006, 73, .	1.0	173
220	Potential and limits to cluster-state quantum computing using probabilistic gates. Physical Review A, 2006, 74, .	1.0	53
221	Entanglement scaling in classical and quantum harmonic oscillator lattices. AIP Conference Proceedings, 2006, , .	0.3	0
222	Optimal entanglement witnesses for continuous-variable systems. New Journal of Physics, 2006, 8, 51-51.	1.2	118
223	Correlations, spectral gap and entanglement in harmonic quantum systems on generic lattices. New Journal of Physics, 2006, 8, 71-71.	1.2	75
224	Feed-forward and its role in conditional linear optical quantum dynamics. Physical Review A, 2006, 73, .	1.0	11
225	Half the entanglement in critical systems is distillable from a single specimen. Physical Review A, 2006, 73, .	1.0	58
226	Computational Difficulty of Global Variations in the Density Matrix Renormalization Group. Physical Review Letters, 2006, 97, 260501.	2.9	27
227	General Entanglement Scaling Laws from Time Evolution. Physical Review Letters, 2006, 97, 150404.	2.9	148
228	Classical information capacity of a class of quantum channels. New Journal of Physics, 2005, 7, 93-93.	1.2	35
229	Quantum information processing and communication. European Physical Journal D, 2005, 36, 203-228.	0.6	272
230	Optical generation of matter qubit graph states. New Journal of Physics, 2005, 7, 194-194.	1.2	50
231	Continuity bounds on the quantum relative entropy. Journal of Mathematical Physics, 2005, 46, 102104.	0.5	62
232	Optimizing Linear Optics Quantum Gates. Physical Review Letters, 2005, 95, 040502.	2.9	41
233	Multiplicativity of maximal output purities of Gaussian channels under Gaussian inputs. Physical Review A, 2005, 71, .	1.0	54
234	Single-copy entanglement in critical quantum spin chains. Physical Review A, 2005, 72, .	1.0	85

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