Juan Ignacio Cirac SasturÃ;in

List of Publications by Year in descending order

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606 79,823 papers citations

129 h-index 268 g-index

614 all docs 614 docs citations

614 times ranked

20690 citing authors

#	Article	IF	CITATIONS
1	Cold Bosonic Atoms in Optical Lattices. Physical Review Letters, 1998, 81, 3108-3111.	7.8	3,154
2	Quantum Computations with Cold Trapped Ions. Physical Review Letters, 1995, 74, 4091-4094.	7.8	3,086
3	Long-distance quantum communication with atomic ensembles and linear optics. Nature, 2001, 414, 413-418.	27.8	2,891
4	Three qubits can be entangled in two inequivalent ways. Physical Review A, 2000, 62, .	2.5	2,609
5	Quantum Repeaters: The Role of Imperfect Local Operations in Quantum Communication. Physical Review Letters, 1998, 81, 5932-5935.	7.8	2,526
6	Quantum State Transfer and Entanglement Distribution among Distant Nodes in a Quantum Network. Physical Review Letters, 1997, 78, 3221-3224.	7.8	1,845
7	Inseparability Criterion for Continuous Variable Systems. Physical Review Letters, 2000, 84, 2722-2725.	7.8	1,712
8	Tonks–Girardeau gas of ultracold atoms in an optical lattice. Nature, 2004, 429, 277-281.	27.8	1,385
9	Dipole Blockade and Quantum Information Processing in Mesoscopic Atomic Ensembles. Physical Review Letters, 2001, 87, 037901.	7.8	1,290
10	Machine learning and the physical sciences. Reviews of Modern Physics, 2019, 91, .	45.6	1,245
11	Matrix product states, projected entangled pair states, and variational renormalization group methods for quantum spin systems. Advances in Physics, 2008, 57, 143-224.	14.4	1,210
12	Fast Quantum Gates for Neutral Atoms. Physical Review Letters, 2000, 85, 2208-2211.	7.8	1,197
13	Quantum computation and quantum-state engineering driven by dissipation. Nature Physics, 2009, 5, 633-636.	16.7	1,092
14	Many-particle entanglement with Bose–Einstein condensates. Nature, 2001, 409, 63-66.	27.8	809
15	Improvement of Frequency Standards with Quantum Entanglement. Physical Review Letters, 1997, 79, 3865-3868.	7.8	782
16	Experimental demonstration of quantum memory for light. Nature, 2004, 432, 482-486.	27.8	727
16	Experimental demonstration of quantum memory for light. Nature, 2004, 432, 482-486. Matrix Product Density Operators: Simulation of Finite-Temperature and Dissipative Systems. Physical Review Letters, 2004, 93, 207204.	27.8 7.8	727 724

#	Article	IF	CITATIONS
19	Entanglement of Atoms via Cold Controlled Collisions. Physical Review Letters, 1999, 82, 1975-1978.	7.8	712
20	Room-Temperature Quantum Bit Memory Exceeding One Second. Science, 2012, 336, 1283-1286.	12.6	707
21	Effective Quantum Spin Systems with Trapped Ions. Physical Review Letters, 2004, 92, 207901.	7.8	700
22	Quantum teleportation between light and matter. Nature, 2006, 443, 557-560.	27.8	644
23	Geometric Manipulation of Trapped lons for Quantum Computation. Science, 2001, 292, 1695-1697.	12.6	641
24	Goals and opportunities in quantum simulation. Nature Physics, 2012, 8, 264-266.	16.7	639
25	Quantum Reservoir Engineering with Laser Cooled Trapped Ions. Physical Review Letters, 1996, 77, 4728-4731.	7.8	607
26	Majorana Fermions in Equilibrium and in Driven Cold-Atom Quantum Wires. Physical Review Letters, 2011, 106, 220402.	7.8	606
27	Quantum repeaters based on entanglement purification. Physical Review A, 1999, 59, 169-181.	2.5	567
28	Sonic Analog of Gravitational Black Holes in Bose-Einstein Condensates. Physical Review Letters, 2000, 85, 4643-4647.	7.8	556
29	Complete Characterization of a Quantum Process: The Two-Bit Quantum Gate. Physical Review Letters, 1997, 78, 390-393.	7.8	546
30	Optimization of entanglement witnesses. Physical Review A, 2000, 62, .	2.5	540
31	Classifying quantum phases using matrix product states and projected entangled pair states. Physical Review B, 2011, 84, .	3.2	521
32	Matrix product states represent ground states faithfully. Physical Review B, 2006, 73, .	3.2	484
33	Creation of entangled states of distant atoms by interference. Physical Review A, 1999, 59, 1025-1033.	2.5	481
34	Assessing Non-Markovian Quantum Dynamics. Physical Review Letters, 2008, 101, 150402.	7.8	477
35	Entanglement Generated by Dissipation and Steady State Entanglement of Two Macroscopic Objects. Physical Review Letters, 2011, 107, 080503.	7.8	465
36	Area Laws in Quantum Systems: Mutual Information and Correlations. Physical Review Letters, 2008, 100, 070502.	7.8	458

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37	Characterization of Gaussian operations and distillation of Gaussian states. Physical Review A, 2002, 66, .	2.5	456
38	Density Matrix Renormalization Group and Periodic Boundary Conditions: A Quantum Information Perspective. Physical Review Letters, 2004, 93, 227205.	7.8	455
39	Time-Dependent Variational Principle for Quantum Lattices. Physical Review Letters, 2011, 107, 070601.	7.8	450
40	A scalable quantum computer with ions in an array of microtraps. Nature, 2000, 404, 579-581.	27.8	449
41	Distributed quantum computation over noisy channels. Physical Review A, 1999, 59, 4249-4254.	2.5	444
42	Criticality, the Area Law, and the Computational Power of Projected Entangled Pair States. Physical Review Letters, 2006, 96, 220601.	7.8	422
43	Classical Simulation of Infinite-Size Quantum Lattice Systems in Two Spatial Dimensions. Physical Review Letters, 2008, 101, 250602.	7.8	413
44	High-Temperature Superfluidity of Fermionic Atoms in Optical Lattices. Physical Review Letters, 2002, 89, 220407.	7.8	396
45	Entanglement versus Correlations in Spin Systems. Physical Review Letters, 2004, 92, 027901.	7.8	377
46	Quantum superposition states of Bose-Einstein condensates. Physical Review A, 1998, 57, 1208-1218.	2.5	375
47	Large Quantum Superpositions and Interference of Massive Nanometer-Sized Objects. Physical Review Letters, 2011, 107, 020405.	7.8	373
48	Toward quantum superposition of living organisms. New Journal of Physics, 2010, 12, 033015.	2.9	366
49	Low Energy Excitations of a Bose-Einstein Condensate: A Time-Dependent Variational Analysis. Physical Review Letters, 1996, 77, 5320-5323.	7.8	349
50	Dynamics of Bose-Einstein condensates: Variational solutions of the Gross-Pitaevskii equations. Physical Review A, 1997, 56, 1424-1432.	2.5	325
51	Quantum correlations in two-fermion systems. Physical Review A, 2001, 64, .	2.5	323
52	Diverging Entanglement Length in Gapped Quantum Spin Systems. Physical Review Letters, 2004, 92, 087201.	7.8	315
53	Renormalization and tensor product states in spin chains and lattices. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 504004.	2.1	314
54	Optimal creation of entanglement using a two-qubit gate. Physical Review A, 2001, 63, .	2.5	310

#	Article	IF	CITATIONS
55	Strong Dissipation Inhibits Losses and Induces Correlations in Cold Molecular Gases. Science, 2008, 320, 1329-1331.	12.6	304
56	Quantum simulations of lattice gauge theories using ultracold atoms in optical lattices. Reports on Progress in Physics, 2016, 79, 014401.	20.1	301
57	de Finetti Representation Theorem for Infinite-Dimensional Quantum Systems and Applications to Quantum Cryptography. Physical Review Letters, 2009, 102, 110504.	7.8	277
58	Quantum information processing and communication. European Physical Journal D, 2005, 36, 203-228.	1.3	272
59	Simulating lattice gauge theories within quantum technologies. European Physical Journal D, 2020, 74, 1.	1.3	272
60	Quantum Communication between Atomic Ensembles Using Coherent Light. Physical Review Letters, 2000, 85, 5643-5646.	7.8	268
61	Valence-bond states for quantum computation. Physical Review A, 2004, 70, .	2.5	258
62	â€~â€~Dark'' squeezed states of the motion of a trapped ion. Physical Review Letters, 1993, 70, 556-559.	7.8	253
63	Strong and Weak Thermalization of Infinite Nonintegrable Quantum Systems. Physical Review Letters, 2011, 106, 050405.	7.8	252
64	Entanglement of Formation for Symmetric Gaussian States. Physical Review Letters, 2003, 91, 107901.	7.8	250
65	Entropy Scaling and Simulability by Matrix Product States. Physical Review Letters, 2008, 100, 030504.	7.8	250
66	Laser cooling of trapped ions in a standing wave. Physical Review A, 1992, 46, 2668-2681.	2.5	248
67	Subwavelength vacuum lattices and atom–atom interactions in two-dimensional photonic crystals. Nature Photonics, 2015, 9, 320-325.	31.4	242
68	Separability and Distillability of Multiparticle Quantum Systems. Physical Review Letters, 1999, 83, 3562-3565.	7.8	238
69	The 2019 surface acoustic waves roadmap. Journal Physics D: Applied Physics, 2019, 52, 353001.	2.8	236
70	Classification of multiqubit mixed states: Separability and distillability properties. Physical Review A, 2000, 61, .	2.5	235
71	Extremality of Gaussian Quantum States. Physical Review Letters, 2006, 96, 080502.	7.8	235
72	Dissipative phase transition in a central spin system. Physical Review A, 2012, 86, .	2.5	234

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73	PEPS as ground states: Degeneracy and topology. Annals of Physics, 2010, 325, 2153-2192.	2.8	231
74	Speed Optimized Two-Qubit Gates with Laser Coherent Control Techniques for Ion Trap Quantum Computing. Physical Review Letters, 2003, 91, 157901.	7.8	226
75	Preparation of Fock states by observation of quantum jumps in an ion trap. Physical Review Letters, 1993, 70, 762-765.	7.8	224
76	Matrix product operator representations. New Journal of Physics, 2010, 12, 025012.	2.9	224
77	Entanglement spectrum and boundary theories with projected entangled-pair states. Physical Review B, 2011, 83, .	3.2	223
78	Matrix product states and projected entangled pair states: Concepts, symmetries, theorems. Reviews of Modern Physics, 2021, 93, .	45. 6	221
79	Quantum memory for nonstationary light fields based on controlled reversible inhomogeneous broadening. Physical Review A, 2006, 73, .	2.5	218
80	Dividing Quantum Channels. Communications in Mathematical Physics, 2008, 279, 147-168.	2.2	217
81	Many-particle entanglement in two-component Bose-Einstein condensates. Physical Review A, 2003, 67, .	2.5	212
82	12-Anyons in Small Atomic Bose-Einstein Condensates. Physical Review Letters, 2001, 87, 010402.	7.8	211
83	Sonic black holes in dilute Bose-Einstein condensates. Physical Review A, 2001, 63, .	2.5	208
84	Ideal Quantum Communication over Noisy Channels: A Quantum Optical Implementation. Physical Review Letters, 1997, 78, 4293-4296.	7.8	206
85	Discrete Entanglement Distribution with Squeezed Light. Physical Review Letters, 2004, 92, 013602.	7.8	203
86	Implementation of Spin Hamiltonians in Optical Lattices. Physical Review Letters, 2004, 93, 250405.	7.8	200
87	Variational study of hard-core bosons in a two-dimensional optical lattice using projected entangled pair states. Physical Review A, 2007, 75, .	2.5	200
88	Sequential Generation of Entangled Multiqubit States. Physical Review Letters, 2005, 95, 110503.	7.8	198
89	Squeezing and Entanglement of Atomic Beams. Physical Review Letters, 2000, 85, 3991-3994.	7.8	197
90	Entangling Operations and Their Implementation Using a Small Amount of Entanglement. Physical Review Letters, 2001, 86, 544-547.	7.8	196

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91	Preparation of macroscopic superpositions in many-atom systems. Physical Review A, 1994, 50, R2799-R2802.	2.5	194
92	Creation of Dark Solitons and Vortices in Bose-Einstein Condensates. Physical Review Letters, 1998, 80, 2972-2975.	7.8	194
93	Quantum gates with neutral atoms: Controlling collisional interactions in time-dependent traps. Physical Review A, 2000, 61, .	2.5	190
94	Scalable architecture for a room temperature solid-state quantum information processor. Nature Communications, 2012, 3, 800.	12.8	190
95	Optically levitating dielectrics in the quantum regime: Theory and protocols. Physical Review A, 2011, 83, .	2.5	187
96	Localizable entanglement. Physical Review A, 2005, 71, .	2.5	186
97	Cold-Atom Quantum Simulator for SU(2) Yang-Mills Lattice Gauge Theory. Physical Review Letters, 2013, 110, 125304.	7.8	185
98	Schemes for atomic-state teleportation. Physical Review A, 1994, 50, R4441-R4444.	2.5	184
99	Continuous Matrix Product States for Quantum Fields. Physical Review Letters, 2010, 104, 190405.	7.8	184
100	Simulating Compact Quantum Electrodynamics with Ultracold Atoms: Probing Confinement and Nonperturbative Effects. Physical Review Letters, 2012, 109, 125302.	7.8	184
101	Entanglement Purification of Gaussian Continuous Variable Quantum States. Physical Review Letters, 2000, 84, 4002-4005.	7.8	183
102	Atomic Quantum Gases in Kagomé Lattices. Physical Review Letters, 2004, 93, 030601.	7.8	183
103	Computational Complexity of Projected Entangled Pair States. Physical Review Letters, 2007, 98, 140506.	7.8	179
104	Photonic Channels for Quantum Communication. Science, 1998, 279, 205-208.	12.6	177
105	Creation of a Molecular Condensate by Dynamically Melting a Mott Insulator. Physical Review Letters, 2002, 89, 040402.	7.8	177
106	Entanglement percolation in quantumÂnetworks. Nature Physics, 2007, 3, 256-259.	16.7	173
107	Fermionic projected entangled pair states. Physical Review A, 2010, 81, .	2.5	170
108	Separability properties of three-mode Gaussian states. Physical Review A, 2001, 64, .	2.5	168

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109	Distillability and partial transposition in bipartite systems. Physical Review A, 2000, 61, .	2.5	165
110	String Order and Symmetries in Quantum Spin Lattices. Physical Review Letters, 2008, 100, 167202.	7.8	163
111	Spin Squeezing Inequalities and Entanglement of NQubit States. Physical Review Letters, 2005, 95, 120502.	7.8	161
112	Neural-Network Quantum States, String-Bond States, and Chiral Topological States. Physical Review X, 2018, 8, .	8.9	161
113	Rényi Entropies from Random Quenches in Atomic Hubbard and Spin Models. Physical Review Letters, 2018, 120, 050406.	7.8	159
114	Universal Quantum Transducers Based on Surface Acoustic Waves. Physical Review X, 2015, 5, .	8.9	154
115	Entanglement Criteria for All Bipartite Gaussian States. Physical Review Letters, 2001, 87, 167904.	7.8	153
116	Renormalization-Group Transformations on Quantum States. Physical Review Letters, 2005, 94, 140601.	7.8	150
117	Effective spin quantum phases in systems of trapped ions. Physical Review A, 2005, 72, .	2.5	150
118	Quantum Chaos in an Ion Trap: The Delta-Kicked Harmonic Oscillator. Physical Review Letters, 1997, 79, 4790-4793.	7.8	149
119	Quantum simulations of gauge theories with ultracold atoms: Local gauge invariance from angular-momentum conservation. Physical Review A, 2013, 88, .	2.5	148
120	Quantum Benchmark for Storage and Transmission of Coherent States. Physical Review Letters, 2005, 94, 150503.	7.8	147
121	Continuous observation of interference fringes from Bose condensates. Physical Review A, 1996, 54, R3714-R3717.	2.5	146
122	Entanglement Capabilities of Nonlocal Hamiltonians. Physical Review Letters, 2001, 87, 137901.	7.8	141
123	Characterization of separable states and entanglement witnesses. Physical Review A, 2001, 63, .	2.5	139
124	Unconventional quantum optics in topological waveguide QED. Science Advances, 2019, 5, eaaw0297.	10.3	139
125	Theory of an atom laser. Physical Review A, 1996, 54, R1757-R1760.	2.5	138
126	The mass spectrum of the Schwinger model with matrix product states. Journal of High Energy Physics, 2013, 2013, 1.	4.7	138

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127	Multiphoton-scattering theory and generalized master equations. Physical Review A, 2015, 92, .	2.5	137
128	Unconditional Two-Mode Squeezing of Separated Atomic Ensembles. Physical Review Letters, 2006, 96, 053602.	7.8	135
129	Variational Matrix Product Operators for the Steady State of Dissipative Quantum Systems. Physical Review Letters, 2015, 114, 220601.	7.8	134
130	Gaussian entanglement of formation. Physical Review A, 2004, 69, .	2.5	130
131	Dissipatively driven entanglement of two macroscopic atomic ensembles. Physical Review A, 2011, 83, .	2.5	130
132	Separability in2×Ncomposite quantum systems. Physical Review A, 2000, 61, .	2.5	129
133	Quantum dynamics of propagating photons with strong interactions: a generalized input–output formalism. New Journal of Physics, 2015, 17, 113001.	2.9	129
134	Quantum collapse and revival in the motion of a single trapped ion. Physical Review A, 1994, 49, 1202-1207.	2.5	128
135	Reflections upon separability and distillability. Journal of Modern Optics, 2002, 49, 1399-1418.	1.3	128
136	Operational criterion and constructive checks for the separability of low-rank density matrices. Physical Review A, 2000, 62, .	2.5	124
137	Optimal Purification of Single Qubits. Physical Review Letters, 1999, 82, 4344-4347.	7.8	118
138	Mapping local Hamiltonians of fermions to local Hamiltonians of spins. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P09012-P09012.	2.3	118
139	Separable States Can Be Used To Distribute Entanglement. Physical Review Letters, 2003, 91, 037902.	7.8	117
140	Self-Organization of Atoms along a Nanophotonic Waveguide. Physical Review Letters, 2013, 110, 113606.	7.8	117
141	Restricted Boltzmann machines in quantum physics. Nature Physics, 2019, 15, 887-892.	16.7	117
142	Interference of Bose condensates. Physical Review A, 1996, 54, 2185-2196.	2.5	116
143	Quasi-Many-Body Localization in Translation-Invariant Systems. Physical Review Letters, 2016, 117, 240601.	7.8	116
144	Matrix Product States for Dynamical Simulation of Infinite Chains. Physical Review Letters, 2009, 102, 240603.	7.8	115

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145	Algorithms for finite projected entangled pair states. Physical Review B, 2014, 90, .	3.2	115
146	Holonomic quantum computation with neutral atoms. Physical Review A, 2002, 66, .	2.5	113
147	Bose-Einstein Condensation and Strong-Correlation Behavior of Phonons in Ion Traps. Physical Review Letters, 2004, 93, 263602.	7.8	113
148	Resonating valence bond states in the PEPS formalism. Physical Review B, 2012, 86, .	3.2	111
149	Cold Atom Simulation of Interacting Relativistic Quantum Field Theories. Physical Review Letters, 2010, 105, 190403.	7.8	110
150	Dissipation-induced hard-core boson gas in an optical lattice. New Journal of Physics, 2009, 11, 013053.	2.9	108
151	Nanoplasmonic Lattices for Ultracold Atoms. Physical Review Letters, 2012, 109, 235309.	7.8	108
152	Quantum spin dynamics with pairwise-tunable, long-range interactions. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4946-55.	7.1	108
153	Quantum computing with neutral atoms. Physics Today, 2017, 70, 44-50.	0.3	108
154	Quantum Phase Transitions in Matrix Product Systems. Physical Review Letters, 2006, 97, 110403.	7.8	107
155	Hawking Radiation from an Acoustic Black Hole on an Ion Ring. Physical Review Letters, 2010, 104, 250403.	7.8	107
156	Stability and collective excitations of a two-component Bose-Einstein condensed gas: A moment approach. Physical Review A, 1997, 56, 2978-2983.	2.5	106
157	Three-dimensional theory for interaction between atomic ensembles and free-space light. Physical Review A, 2002, 66, .	2.5	106
158	Quantum memories based on engineered dissipation. Physical Review A, 2011, 83, .	2.5	106
159	Quantum Gates with "Hot―Trapped Ions. Physical Review Letters, 1998, 81, 1322-1325.	7.8	105
160	Topological and entanglement properties of resonating valence bond wave functions. Physical Review B, 2012, 86, .	3.2	105
161	Collective generation of quantum states of light by entangled atoms. Physical Review A, 2008, 78, .	2.5	104
162	Laser cooling of trapped three-level ions: Designing two-level systems for sideband cooling. Physical Review A, 1994, 49, 2771-2779.	2.5	103

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163	Exploring frustrated spin systems using projected entangled pair states. Physical Review B, 2009, 79, .	3.2	103
164	Defect-Suppressed Atomic Crystals in an Optical Lattice. Physical Review Letters, 2003, 91, 110403.	7.8	102
165	Quantum random networks. Nature Physics, 2010, 6, 539-543.	16.7	102
166	Motion tomography of a single trapped ion. Physical Review A, 1996, 53, R1966-R1969.	2.5	101
167	Variational matrix-product-state approach to quantum impurity models. Physical Review B, 2009, 80, .	3.2	101
168	Variational matrix product ansatz for dispersion relations. Physical Review B, 2012, 85, .	3.2	101
169	Matrix product unitaries: structure, symmetries, and topological invariants. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 083105.	2.3	101
170	Exact dynamics in dual-unitary quantum circuits. Physical Review B, 2020, 101, .	3.2	101
171	Entanglement in fermionic systems. Physical Review A, 2007, 76, .	2.5	100
172	Mesoscopic spin-boson models of trapped ions. Physical Review A, 2008, 78, .	2.5	99
173	Quantum circuits for strongly correlated quantum systems. Physical Review A, 2009, 79, .	2.5	99
174	Infinite matrix product states, conformal field theory, and the Haldane-Shastry model. Physical Review B, $2010,81,.$	3.2	99
175	Trapped ions in the strong-excitation regime: Ion interferometry and nonclassical states. Physical Review A, 1996, 54, 1532-1540.	2.5	98
176	Simulating (<mml:math)="" 0="" 055302.<="" 10="" 110,="" 2013,="" atoms.="" dynamical="" etqq0="" lattice="" letters,="" matter="" overlock="" physical="" qed="" review="" rgbt="" tf="" th="" tj="" ultracold="" using="" with="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><th>50 227 Td 7.8</th><th>d (display="ir 98</th></mml:math>	50 227 Td 7.8	d (display="ir 98
177	Quantum communication with dark photons. Physical Review A, 1999, 59, 2659-2664.	2.5	97
178	Nonlinear matter wave dynamics with a chaotic potential. Physical Review A, 2000, 62, .	2.5	96
179	New Frontiers in Quantum Information With Atoms and Ions. Physics Today, 2004, 57, 38-44.	0.3	96
180	Simulation of Quantum Many-Body Systems with Strings of Operators and MonteÂCarlo Tensor Contractions. Physical Review Letters, 2008, 100, 040501.	7.8	96

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181	Quantum computing with neutral atoms. Journal of Modern Optics, 2000, 47, 415-451.	1.3	95
182	Light-matter quantum interface. Physical Review A, 2004, 70, .	2.5	95
183	Quantum Manipulation of Trapped Ions in Two Dimensional Coulomb Crystals. Physical Review Letters, 2006, 96, 250501.	7.8	95
184	Topological Order in the Projected Entangled-Pair States Formalism: Transfer Operator and Boundary Hamiltonians. Physical Review Letters, 2013, 111, 090501.	7.8	94
185	Entanglement Cost of Bipartite Mixed States. Physical Review Letters, 2002, 89, 027901.	7.8	93
186	Noise-driven dynamics and phase transitions in fermionic systems. Physical Review A, 2013, 87, .	2.5	93
187	Deterministic Generation of Arbitrary Photonic States Assisted by Dissipation. Physical Review Letters, 2015, 115, 163603.	7.8	93
188	Coherent control of trapped ions using off-resonant lasers. Physical Review A, 2005, 71, .	2.5	92
189	Creation, Manipulation, and Detection of Abelian and Non-Abelian Anyons in Optical Lattices. Physical Review Letters, 2008, 101, 260501.	7.8	90
190	Bound States in Boson Impurity Models. Physical Review X, 2016, 6, .	8.9	90
191	Digital lattice gauge theories. Physical Review A, 2017, 95, .	2.5	90
192	Effective Size of Certain Macroscopic Quantum Superpositions. Physical Review Letters, 2002, 89, 210402.	7.8	88
193	Coherent eavesdropping strategies for the four state quantum cryptography protocol. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 229, 1-7.	2.1	87
194	Quantum Magnetomechanics with Levitating Superconducting Microspheres. Physical Review Letters, 2012, 109, 147205.	7.8	87
195	Approximating Gibbs states of local Hamiltonians efficiently with projected entangled pair states. Physical Review B, 2015, 91, .	3.2	87
196	Detecting Vacuum Entanglement in a Linear Ion Trap. Physical Review Letters, 2005, 94, 050504.	7.8	86
197	Sequential generation of matrix-product states in cavity QED. Physical Review A, 2007, 75, .	2.5	86
198	Optimal simulation of two-qubit Hamiltonians using general local operations. Physical Review A, 2002, 66, .	2.5	85

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199	Entanglement Distillation by Dissipation and Continuous Quantum Repeaters. Physical Review Letters, 2011, 107, 120502.	7.8	84
200	Ground-state properties of quantum many-body systems: entangled-plaquette states and variational Monte Carlo. New Journal of Physics, 2009, 11, 083026.	2.9	83
201	Markovian and non-Markovian dynamics of quantum emitters coupled to two-dimensional structured reservoirs. Physical Review A, 2017, 96, .	2.5	83
202	Quantum Nonlocality in the Presence of Superselection Rules and Data Hiding Protocols. Physical Review Letters, 2003, 91, 010404.	7.8	82
203	Analogue quantum chemistry simulation. Nature, 2019, 574, 215-218.	27.8	82
204	Quantum entanglement theory in the presence of superselection rules. Physical Review A, 2004, 70, .	2.5	81
205	Digital Quantum Simulation of <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Lattice Gauge Theories with Dynamical Fermionic Matter. Physical Review Letters. 2017. 118. 070501.	7.8	81
206	Dynamic splitting of a Bose-Einstein condensate. Physical Review A, 2001, 63, .	2.5	80
207	Measurement-based measure of the size of macroscopic quantum superpositions. Physical Review A, 2007, 75, .	2.5	80
208	Reabsorption of Light by Trapped Atoms. Physical Review Letters, 1998, 80, 5305-5308.	7.8	79
209	Quantum entanglement in spinor Bose-Einstein condensates. Physical Review A, 2002, 65, .	2.5	79
210	A Quantum Version of Wielandt's Inequality. IEEE Transactions on Information Theory, 2010, 56, 4668-4673.	2.4	79
211	Unifying projected entangled pair state contractions. New Journal of Physics, 2014, 16, 033014.	2.9	79
212	Gauging Quantum States: From Global to Local Symmetries in Many-Body Systems. Physical Review X, 2015, 5, .	8.9	79
213	Variational study of fermionic and bosonic systems with non-Gaussian states: Theory and applications. Annals of Physics, 2018, 390, 245-302.	2.8	79
214	Nonclassical states of motion in a three-dimensional ion trap by adiabatic passage. Physical Review A, 1994, 49, R3174-R3177.	2.5	78
215	Nonlocal Resources in the Presence of Superselection Rules. Physical Review Letters, 2004, 92, 087904.	7.8	78
216	Interaction of a two-level atom with a cavity mode in the bad-cavity limit. Physical Review A, 1992, 46, 4354-4362.	2.5	77

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217	Enforcing Coherent Evolution in Dissipative Quantum Dynamics. Science, 1996, 273, 1207-1210.	12.6	77
218	Quantum Emitters in Two-Dimensional Structured Reservoirs in the Nonperturbative Regime. Physical Review Letters, 2017, 119, 143602.	7.8	77
219	Digital quantum simulation of lattice gauge theories in three spatial dimensions. New Journal of Physics, 2018, 20, 093001.	2.9	77
220	Storing Quantum Dynamics in Quantum States: A Stochastic Programmable Gate. Physical Review Letters, 2002, 88, 047905.	7.8	75
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