Juan Ignacio Cirac SasturÃ¡in

List of Publications by Year
in descending order

591 papers	80,549 citations	439 128 h-index	430 270 g-index
599 all docs	599 docs citations	599 times ranked	20860 citing authors

#	Article	IF	Citations
1	Preparation of Matrix Product States with Log-Depth Quantum Circuits. Physical Review Letters, 2024, 132, .	8.0	6
2	Fermionic matter-wave quantum optics with cold-atom impurity models. Physical Review A, 2024, 109, .	2.6	1
3	Probing off-diagonal eigenstate thermalization with tensor networks. Physical Review B, 2024, 109, .	3.3	0
4	Phase-Sensitive Quantum Measurement without Controlled Operations. Physical Review Letters, 2024, 132, .	8.0	1
5	Quantum advantage and stability to errors in analogue quantum simulators. Nature Communications, 2024, 15, .	13.2	0
6	Few-Body Analog Quantum Simulation with Rydberg-Dressed Atoms in Optical Lattices. PRX Quantum, 2023, 4, .	9.3	1
7	Free-fermion Page curve: Canonical typicality and dynamical emergence. Physical Review Research, 2023, 5, .	3.6	2
8	Topological effects in two-dimensional quantum emitter systems. Physical Review B, 2023, 107, .	3.3	4
9	Long-Range Free Fermions: Lieb-Robinson Bound, Clustering Properties, and Topological Phases. Physical Review Letters, 2023, 130, .	8.0	7
10	Symmetries and field tensor network states. Physical Review B, 2023, 107, .	3.3	1
11	Efficient adiabatic preparation of tensor network states. Physical Review Research, 2023, 5, .	3.6	6
12	Cross-platform verification in quantum networks. Physical Review A, 2023, 107, .	2.6	2
13	Simulating Prethermalization Using Near-Term Quantum Computers. PRX Quantum, 2023, 4, .	9.3	4
14	Quantum simulation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> lattice gauge theory with minimal resources. Physical Review D, 2023, 108, .	4.8	9
15	Variational Monte Carlo algorithm for lattice gauge theories with continuous gauge groups: A study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mo>(</mml:mo><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn><mml:mo>)</mml:mo></mml:math>-dimensional compact QED with dynamical fermions at finite density. Physical Review Research, 2023, 5, .	3.6	2
16	Sequential Generation of Projected Entangled-Pair States. Physical Review Letters, 2022, 128, 010607.	8.0	22
17	Generation of photonic tensor network states with circuit QED. Physical Review A, 2022, 105, .	2.6	4
18	Symmetries and local transformations of translationally invariant matrix product states. Physical Review A, 2022, 105, .	2.6	2

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19	Spin-Holstein Models in Trapped-Ion Systems. Physical Review Letters, 2022, 128, 120404.	8.0	6
20	Bose polaron and the Efimov effect: A Gaussian-state approach. Physical Review A, 2022, 105, .	2.6	14
21	Chemistry of a Light Impurity in a Bose-Einstein Condensate. Physical Review Letters, 2022, 128, 183401.	8.0	9
22	Enhancing Generative Models via Quantum Correlations. Physical Review X, 2022, 12, .	9.1	18
23	Preparation and verification of tensor network states. Physical Review Research, 2022, 4, .	3.6	6
24	Adiabatic Spectroscopy and a Variational Quantum Adiabatic Algorithm. PRX Quantum, 2022, 3, .	9.3	17
25	Long-range electron-electron interactions in quantum dot systems and applications in quantum chemistry. Physical Review Research, 2022, 4, .	3.6	5
26	Locality optimization for parent Hamiltonians of tensor networks. Physical Review B, 2022, 106, .	3.3	2
27	Classical algorithms for many-body quantum systems at finite energies. Physical Review B, 2022, 106, .	3.3	9
28	Large- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>N</mml:mi></mml:math> limit of Dicke superradiance. Physical Review A, 2022, 106, .	2.6	4
29	VariationalAnsatzfor the Ground State of the Quantum Sherrington-Kirkpatrick Model. Physical Review Letters, 2022, 129, .	8.0	12
30	Variational dynamics as a ground-state problem on a quantum computer. Physical Review Research, 2022, 4, .	3.6	8
31	Error Propagation in NISQ Devices for Solving Classical Optimization Problems. PRX Quantum, 2022, 3, .	9.3	13
32	Gaussian matrix product states cannot efficiently describe critical systems. Physical Review B, 2022, 106, .	3.3	1
33	Transitions in Computational Complexity of Continuous-Time Local Open Quantum Dynamics. Physical Review Letters, 2022, 129, .	8.0	3
34	Simulating <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn><mml:mi mathvariant="normal">D</mml:mi></mml:mrow></mml:math> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Z</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> Lattice Gauge Theory with an Infinite Projected Entangled-Pair State. Physical Review Letters, 2021, 126,	8.0	23
35	Higgs-Mediated Optical Amplification in a Nonequilibrium Superconductor. Physical Review X, 2021, 11, .	9.1	23
36	Approximating the long time average of the density operator: Diagonal ensemble. Physical Review B, 2021, 103, .	3.3	8

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37	Field tensor network states. Physical Review B, 2021, 103, .	3.3	4
38	Generation of photonic matrix product states with Rydberg atomic arrays. Physical Review Research, 2021, 3, .	3.6	11
39	Topological Lower Bound on Quantum Chaos by Entanglement Growth. Physical Review Letters, 2021, 126, 160601.	8.0	19
40	RÃ©nyi free energy and variational approximations to thermal states. Physical Review B, 2021, 103, .	3.3	3
41	Algorithms for Quantum Simulation at Finite Energies. PRX Quantum, 2021, 2, .	9.3	58
42	Generalization of group-theoretic coherent states for variational calculations. Physical Review Research, 2021, 3, .	3.6	5
43	Quantum algorithms for powering stable Hermitian matrices. Physical Review A, 2021, 103, .	2.6	4
44	Density of states of the lattice Schwinger model. Physical Review D, 2021, 104, .	4.8	6
45	Locality of temperature and correlations in the presence of non-zero-temperature phase transitions. New Journal of Physics, 2021, 23, 073052.	2.9	2
46	Exploiting the photonic nonlinearity of free-space subwavelength arrays of atoms. Physical Review A, 2021, 104, .	2.6	14
47	Fermionic quantum cellular automata and generalized matrix-product unitaries. Journal of Statistical Mechanics: Theory and Experiment, 2021, 2021, 013107.	2.3	14
48	Quantum Circuits Assisted by Local Operations and Classical Communication: Transformations and Phases of Matter. Physical Review Letters, 2021, 127, 220503.	8.0	46
49	Locally Accurate Tensor Networks for Thermal States and Time Evolution. PRX Quantum, 2021, 2, .	9.3	18
50	Matrix product states and projected entangled pair states: Concepts, symmetries, theorems. Reviews of Modern Physics, 2021, 93, .	46.4	285
51	Atomic waveguide QED with atomic dimers. Physical Review A, 2021, 104, .	2.6	7
52	Convergence Guarantees for Discrete Mode Approximations to Non-Markovian Quantum Baths. Physical Review Letters, 2021, 127, 250404.	8.0	7
53	Realizing a deterministic source of multipartite-entangled photonic qubits. Nature Communications, 2020, 11, 4877.	13.2	48
54	Entanglement and its relation to energy variance for local one-dimensional Hamiltonians. Physical Review B, 2020, 101, .	3.3	14

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55	Simulating lattice gauge theories within quantum technologies. European Physical Journal D, 2020, 74, 1.	1.4	315
56	Quantum Cellular Automata, Tensor Networks, and Area Laws. Physical Review Letters, 2020, 125, 190402.	8.0	35
57	Variational Approach for Many-Body Systems at Finite Temperature. Physical Review Letters, 2020, 125, 180602.	8.0	14
58	Quantum East Model: Localization, Nonthermal Eigenstates, and Slow Dynamics. Physical Review X, 2020, 10, .	9.1	66
59	Wigner crystals in two-dimensional transition-metal dichalcogenides: Spin physics and readout. Physical Review B, 2020, 101, .	3.3	11
60	Exact dynamics in dual-unitary quantum circuits. Physical Review B, 2020, 101, .	3.3	120
61	Probing Thermalization through Spectral Analysis with Matrix Product Operators. Physical Review Letters, 2020, 124, 100602.	8.0	20
62	Classification of Matrix-Product Unitaries with Symmetries. Physical Review Letters, 2020, 124, 100402.	8.0	18
63	Multimode Fock states with large photon number: effective descriptions and applications in quantum metrology. Quantum Science and Technology, 2020, 5, 025003.	5.9	15
64	From Probabilistic Graphical Models to Generalized Tensor Networks for Supervised Learning. IEEE Access, 2020, 8, 68169-68182.	4.4	25
65	Markovianity of an emitter coupled to a structured spin-chain bath. Physical Review A, 2020, 101, .	2.6	7
66	Nondestructive photon counting in waveguide QED. Physical Review Research, 2020, 2, .	3.6	10
67	Ultrafast molecular dynamics in terahertz-STM experiments: Theoretical analysis using the Anderson-Holstein model. Physical Review Research, 2020, 2, .	3.6	10
68	Quantum simulation of two-dimensional quantum chemistry in optical lattices. Physical Review Research, 2020, 2, .	3.6	11
69	Real-time dynamics in 2+1D compact QED using complex periodic Gaussian states. Physical Review Research, 2020, 2, .	3.6	18
70	Zero-temperature phases of the two-dimensional Hubbard-Holstein model: A non-Gaussian exact diagonalization study. Physical Review Research, 2020, 2, .	3.6	31
71	Efficient Description of Many-Body Systems with Matrix Product Density Operators. PRX Quantum, 2020, 1, .	9.3	21
72	Evaluation of time-dependent correlators after a local quench in iPEPS: hole motion in the t-J model. SciPost Physics, 2020, 8, .	4.9	29

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73	Quantum computing and simulation. Nanophotonics, 2020, 10, 453-456.	6.3	10
74	Removing staggered fermionic matter in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>N</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>S</mml:mi><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>N</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 677 Td (stretchy="false">)</mml:m	4.8	43
75	Quantum simulation and optimization in hot quantum networks. Physical Review B, 2019, 99, .	3.3	7
76	Unconventional quantum optics in topological waveguide QED. Science Advances, 2019, 5, eaaw0297.	10.9	154
77	The 2019 surface acoustic waves roadmap. Journal Physics D: Applied Physics, 2019, 52, 353001.	2.9	268
78	Analogue quantum chemistry simulation. Nature, 2019, 574, 215-218.	36.3	93
79	Cold atoms in twisted-bilayer optical potentials. Physical Review A, 2019, 100, .	2.6	51
80	Efficient variational approach to dynamics of a spatially extended bosonic Kondo model. Physical Review A, 2019, 100, .	2.6	9
81	Quantum Rydberg Central Spin Model. Physical Review Letters, 2019, 123, 183001.	8.0	26
82	Gaussian time-dependent variational principle for the Bose-Hubbard model. Physical Review B, 2019, 100, .	3.3	24
83	Matrix Product States: Entanglement, Symmetries, and State Transformations. Physical Review Letters, 2019, 123, 170504.	8.0	9
84	Mathematical open problems in projected entangled pair states. Revista Matematica Complutense, 2019, 32, 579-599.	1.2	11
85	Engineering and Harnessing Giant Atoms in High-Dimensional Baths: A Proposal for Implementation with Cold Atoms. Physical Review Letters, 2019, 122, 203603.	8.0	60
86	Restricted Boltzmann machines in quantum physics. Nature Physics, 2019, 15, 887-892.	11.8	128
87	Continuous Tensor Network States for Quantum Fields. Physical Review X, 2019, 9, .	9.1	28
88	Quantum metrology with one-dimensional superradiant photonic states. Physical Review A, 2019, 99, .	2.6	35
89	Faster ground state preparation and high-precision ground energy estimation with fewer qubits. Journal of Mathematical Physics, 2019, 60, .	1.2	72
90	Quantum chaos in the Brownian SYK model with large finite N : OTOCs and tripartite information. Journal of High Energy Physics, 2019, 2019, 1.	4.8	61

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91	Machine learning and the physical sciences. Reviews of Modern Physics, 2019, 91, .	46.4	1,414
92	Time-dependent study of disordered models with infinite projected entangled pair states. SciPost Physics, 2019, 6, .	4.9	40
93	Tensor Networks and their use for Lattice Gauge Theories. , 2019, , .		22
94	Gaussian states for the variational study of (1+1)-dimensional lattice gauge models. , 2019, , .		3
95	Combining tensor networks with MonteÂCarlo methods for lattice gauge theories. Physical Review D, 2018, 97, .	4.8	29
96	Exotic quantum dynamics and purely long-range coherent interactions in Dirac conelike baths. Physical Review A, 2018, 97, .	2.6	48
97	Unitary<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math>-designs via random quenches in atomic Hubbard and spin models: Application to the measurement of RÃ©nyi entropies. Physical Review A, 2018, 97, .	2.6	80
98	RÃ©nyi Entropies from Random Quenches in Atomic Hubbard and Spin Models. Physical Review Letters, 2018, 120, 050406.	8.0	179
99	Variational study of fermionic and bosonic systems with non-Gaussian states: Theory and applications. Annals of Physics, 2018, 390, 245-302.	2.9	87
100	Neural-Network Quantum States, String-Bond States, and Chiral Topological States. Physical Review X, 2018, 8, .	9.1	178
101	Exploring the anisotropic Kondo model in and out of equilibrium with alkaline-earth atoms. Physical Review B, 2018, 97, .	3.3	41
102	Almost conserved operators in nearly many-body localized systems. Physical Review B, 2018, 97, .	3.3	16
103	Continuum limits of matrix product states. Physical Review B, 2018, 98, .	3.3	5
104	Effective many-body Hamiltonians of qubit-photon bound states. New Journal of Physics, 2018, 20, 105005.	2.9	29
105	Computational Speedups Using Small Quantum Devices. Physical Review Letters, 2018, 121, 250501.	8.0	29
106	Normal projected entangled pair states generating the same state. New Journal of Physics, 2018, 20, 113017.	2.9	23
107	Digital quantum simulation of lattice gauge theories in three spatial dimensions. New Journal of Physics, 2018, 20, 093001.	2.9	82
108	Bosonic Gaussian states from conformal field theory. Physical Review B, 2018, 98, .	3.3	4

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109	Localization with random time-periodic quantum circuits. Physical Review B, 2018, 98, .	3.3	44
110	Variational study of U(1) and SU(2) lattice gauge theories with Gaussian states in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math>dimens Physical Review D, 2018, 98, .	4.8	48
111	Projected entangled pair states with continuous virtual symmetries. Physical Review B, 2018, 98, .	3.3	4
112	A generalization of the injectivity condition for projected entangled pair states. Journal of Mathematical Physics, 2018, 59, .	1.2	14
113	Generation of single- and two-mode multiphoton states in waveguide QED. Physical Review A, 2018, 97, .	2.6	9
114	Solid-state magnetic traps and lattices. Physical Review B, 2018, 97, .	3.3	2
115	Variational principle for quantum impurity systems in and out of equilibrium: Application to Kondo problems. Physical Review B, 2018, 98, .	3.3	24
116	Quantum optics without photons. Nature, 2018, 559, 481-482.	36.3	1
117	Solving Quantum Impurity Problems in and out of Equilibrium with the Variational Approach. Physical Review Letters, 2018, 121, 026805.	8.0	37
118	Eliminating fermionic matter fields in lattice gauge theories. Physical Review B, 2018, 98, .	3.3	48
119	Towards overcoming the Monte Carlo sign problem with tensor networks. EPJ Web of Conferences, 2017, 137, 04001.	0.3	22
120	Quantum simulation of the Abelian-Higgs lattice gauge theory with ultracold atoms. New Journal of Physics, 2017, 19, 063038.	2.9	58
121	Heralded multiphoton states with coherent spin interactions in waveguide QED. New Journal of Physics, 2017, 19, 043004.	2.9	5
122	Density Induced Phase Transitions in the Schwinger Model: A Study with Matrix Product States. Physical Review Letters, 2017, 118, 071601.	8.0	76
123	Digital Quantum Simulation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><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.	8.0	88
124	Quantum optics, what next?. Nature Photonics, 2017, 11, 18-20.	23.2	14
125	Efficient quantum computation in a network with probabilistic gates and logical encoding. Physical Review A, 2017, 95, .	2.6	5
126	Effective description of correlations for states obtained from conformal field theory. Physical Review B, 2017, 96, .	3.3	2

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127	Quantum Spin Stabilized Magnetic Levitation. Physical Review Letters, 2017, 119, 167202.	8.0	46
128	Quantum Emitters in Two-Dimensional Structured Reservoirs in the Nonperturbative Regime. Physical Review Letters, 2017, 119, 143602.	8.0	81
129	Markovian and non-Markovian dynamics of quantum emitters coupled to two-dimensional structured reservoirs. Physical Review A, 2017, 96, .	2.6	87
130	Topological phenomena in classical optical networks. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8967-E8976.	7.6	18
131	Acoustic Traps and Lattices for Electrons in Semiconductors. Physical Review X, 2017, 7, .	9.1	22
132	Matrix product unitaries: structure, symmetries, and topological invariants. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 083105.	2.3	103
133	Correlation Decay in Fermionic Lattice Systems with Power-Law Interactions at Nonzero Temperature. Physical Review Letters, 2017, 119, 110601.	8.0	16
134	Classification of matrix product states with a local (gauge) symmetry. Annals of Physics, 2017, 386, 199-241.	2.9	18
135	Energy as a Detector of Nonlocality of Many-Body Spin Systems. Physical Review X, 2017, 7, .	9.1	28
136	High-fidelity hot gates for generic spin-resonator systems. Physical Review A, 2017, 95, .	2.6	25
137	Ultrafocused Electromagnetic Field Pulses with a Hollow Cylindrical Waveguide. Physical Review Letters, 2017, 119, 043904.	8.0	1
138	Linear stability analysis of a levitated nanomagnet in a static magnetic field: Quantum spin stabilized magnetic levitation. Physical Review B, 2017, 96, .	3.3	15
139	Digital lattice gauge theories. Physical Review A, 2017, 95, .	2.6	96
140	Efficient Multiphoton Generation in Waveguide Quantum Electrodynamics. Physical Review Letters, 2017, 118, 213601.	8.0	67
141	Efficient Basis Formulation for (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq1 1 0.784314 rgBT /Overlo SU(2) Lattice Gauge Theory: Spectral Calculations with Matrix Product States. Physical Review X, 2017, 7, .	9.1	63
142	Irreducible forms of matrix product states: Theory and applications. Journal of Mathematical Physics, 2017, 58, .	1.2	13
143	Dynamics of quantum information in many-body localized systems. Physical Review B, 2017, 96, .	3.3	25
144	Quantum Gross-Pitaevskii Equation. SciPost Physics, 2017, 3, .	4.9	12

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145	Quantum Computing with Cold Ions and Atoms: Theory. , 2016, , 483-517.		0
146	Quasi-Many-Body Localization in Translation-Invariant Systems. Physical Review Letters, 2016, 117, 240601.	8.0	122
147	Fundamental limitations in the purifications of tensor networks. Journal of Mathematical Physics, 2016, 57, .	1.2	23
148	Projected Entangled Pair States with non-Abelian gauge symmetries: An SU(2) study. Annals of Physics, 2016, 374, 84-137.	2.9	40
149	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.	7.6	115
150	Efficient variational diagonalization of fully many-body localized Hamiltonians. Physical Review B, 2016, 94, .	3.3	67
151	Ultrashort Pulses for Far-Field Nanoscopy. Physical Review Letters, 2016, 117, 103602.	8.0	1
152	Rapid Adiabatic Preparation of Injective Projected Entangled Pair States and Gibbs States. Physical Review Letters, 2016, 116, 080503.	8.0	44
153	Bound States in Boson Impurity Models. Physical Review X, 2016, 6, .	9.1	96
154	Dissipative long-range entanglement generation between electronic spins. Physical Review B, 2016, 94, .	3.3	13
155	Systematic construction of density functionals based on matrix product state computations. New Journal of Physics, 2016, 18, 083039.	2.9	18
156	Lattice effects on Laughlin wave functions and parent Hamiltonians. Physical Review B, 2016, 94, .	3.3	21
157	Quantum simulations of lattice gauge theories using ultracold atoms in optical lattices. Reports on Progress in Physics, 2016, 79, 014401.	20.4	325
158	Multiphoton-scattering theory and generalized master equations. Physical Review A, 2015, 92, .	2.6	140
159	Chiral topological spin liquids with projected entangled pair states. Physical Review B, 2015, 91, .	3.3	47
160	Edge states for the Kalmeyer-Laughlin wave function. Physical Review B, 2015, 92, .	3.3	7
161	Thermal evolution of the Schwinger model with matrix product operators. Physical Review D, 2015, 92, .	4.8	61
162	Deterministic Generation of Arbitrary Photonic States Assisted by Dissipation. Physical Review Letters, 2015, 115, 163603.	8.0	96

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163	Gauging Quantum States: From Global to Local Symmetries in Many-Body Systems. Physical Review X, 2015, 5, .	9.1	87
164	Slowest local operators in quantum spin chains. Physical Review E, 2015, 92, 012128.	2.2	42
165	Universal Quantum Transducers Based on Surface Acoustic Waves. Physical Review X, 2015, 5, .	9.1	164
166	Non-Abelian string breaking phenomena with matrix product states. Journal of High Energy Physics, 2015, 2015, 1.	4.8	72
167	Quantum dynamics of propagating photons with strong interactions: a generalized inputâ€“output formalism. New Journal of Physics, 2015, 17, 113001.	2.9	131
168	Variational Matrix Product Operators for the Steady State of Dissipative Quantum Systems. Physical Review Letters, 2015, 114, 220601.	8.0	141
169	Fermionic projected entangled pair states and local<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si86.gif" display="inline" overflow="scroll"><mml:mi>U</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mn>1</mml:mn><mml:mo>)</mml:mo></mml:mro theories. Annals of Physics, 2015, 363, 385-439.	2.9	59
170	Approximating Gibbs states of local Hamiltonians efficiently with projected entangled pair states. Physical Review B, 2015, 91, .	3.3	92
171	Chiral Projected Entangled-Pair State with Topological Order. Physical Review Letters, 2015, 114, 106803.	8.0	41
172	Subwavelength vacuum lattices and atomâ€“atom interactions in two-dimensional photonic crystals. Nature Photonics, 2015, 9, 320-325.	23.2	251
173	Exact parent Hamiltonians of bosonic and fermionic Mooreâ€“Read states on lattices and local models. New Journal of Physics, 2015, 17, 082001.	2.9	33
174	Frustration Free Gapless Hamiltonians for Matrix Product States. Communications in Mathematical Physics, 2015, 333, 299-333.	2.3	20
175	Temperature dependence of the chiral condensate in the Schwinger model with Matrix Product States. , 2015, , .		6
176	Unifying projected entangled pair state contractions. New Journal of Physics, 2014, 16, 033014.	2.9	82
177	Lattice Laughlin states of bosons and fermions at filling fractions 1/<i>q</i>. New Journal of Physics, 2014, 16, 033025.	2.9	41
178	Edge Theories in Projected Entangled Pair State Models. Physical Review Letters, 2014, 112, 036402.	8.0	36
179	Optical-lattice implementation scheme of a bosonic topological model with fermionic atoms. Physical Review A, 2014, 90, .	2.6	8
180	Symmetries and boundary theories for chiral projected entangled pair states. Physical Review B, 2014, 90, .	3.3	35

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181	Quantum simulation of the Schwinger model: A study of feasibility. Physical Review A, 2014, 90, .	2.6	81
182	Nuclear spin dynamics in double quantum dots: Multistability, dynamical polarization, criticality, and entanglement. Physical Review B, 2014, 89, .	3.3	16
183	Construction of spin models displaying quantum criticality from quantum field theory. Nuclear Physics B, 2014, 886, 63-74.	2.6	4
184	Algorithms for finite projected entangled pair states. Physical Review B, 2014, 90, .	3.3	127
185	Resonating-valence-bond superconductors with fermionic projected entangled pair states. Physical Review B, 2014, 89, .	3.3	27
186	Long-Distance Transfer and Routing of Static Magnetic Fields. Physical Review Letters, 2014, 112, 253901.	8.0	62
187	Quantum simulations of gauge theories with ultracold atoms: Local gauge invariance from angular-momentum conservation. Physical Review A, 2013, 88, .	2.6	157
188	Optomechanics assisted by a qubit: From dissipative state preparation to many-partite systems. Physical Review A, 2013, 88, .	2.6	29
189	Superconducting Vortex Lattices for Ultracold Atoms. Physical Review Letters, 2013, 111, 145304.	8.0	69
190	Local models of fractional quantum Hall states in lattices and physical implementation. Nature Communications, 2013, 4, 2864.	13.2	78
191	Steady-State Entanglement in the Nuclear Spin Dynamics of a Double Quantum Dot. Physical Review Letters, 2013, 111, 246802.	8.0	20
192	Topological Order in the Projected Entangled-Pair States Formalism: Transfer Operator and Boundary Hamiltonians. Physical Review Letters, 2013, 111, 090501.	8.0	98
193	Cold-Atom Quantum Simulator for SU(2) Yang-Mills Lattice Gauge Theory. Physical Review Letters, 2013, 110, 125304.	8.0	196
194	Simulating (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (display="in Lattice QED with Dynamical Matter Using Ultracold Atoms. Physical Review Letters, 2013, 110, 055302.	8.0	106
195	Quantum simulation â€•an exciting adventure. Annalen Der Physik, 2013, 525, A153.	2.5	2
196	Noise-driven dynamics and phase transitions in fermionic systems. Physical Review A, 2013, 87, .	2.6	102
197	Topological phenomena in trapped-ion systems. Physical Review A, 2013, 87, .	2.6	14
198	Self-Organization of Atoms along a Nanophotonic Waveguide. Physical Review Letters, 2013, 110, 113606.	8.0	121

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