Heng Fan

List of Publications by Year
in descending order

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		36203	54797
307	9,512	51	84
papers	citations	h-index	g-index

308	308	308	5977
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Strain tuning of optical emission energy and polarization in monolayer and bilayer MoS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 88, .	1.1	365
2	Generation of multicomponent atomic SchrÃ¶dinger cat states of up to 20 qubits. Science, 2019, 365, 574-577.	6.0	235
3	Fidelity and trace-norm distances for quantifying coherence. Physical Review A, 2015, 91, .	1.0	230
4	Monogamy inequality in terms of negativity for three-qubit states. Physical Review A, 2007, 75, .	1.0	215
5	Quantum coherence and geometric quantum discord. Physics Reports, 2018, 762-764, 1-100.	10.3	201
6	Quantum coherence and correlations in quantum system. Scientific Reports, 2015, 5, 10922.	1.6	197
7	Emulating Many-Body Localization with a Superconducting Quantum Processor. Physical Review Letters, 2018, 120, 050507.	2.9	189
8	Distinguishability and Indistinguishability by Local Operations and Classical Communication. Physical Review Letters, 2004, 92, 177905.	2.9	173
9	Dense Network of One-Dimensional Midgap Metallic Modes in Monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Their Spatial Undulations. Physical Review Letters, 2014, 113, 066105.	2.9	172
10	Strongly correlated quantum walks with a 12-qubit superconducting processor. Science, 2019, 364, 753-756.	6.0	169
11	Fractional Chern Insulators in Topological Flat Bands with Higher Chern Number. Physical Review Letters, 2012, 109, 186805.	2.9	139
12	Quantum-memory-assisted entropic uncertainty principle, teleportation, and entanglement witness in structured reservoirs. Physical Review A, 2012, 86, .	1.0	131
13	Quantum speed limit for arbitrary initial states. Scientific Reports, 2014, 4, 4890.	1.6	131
14	Topological characters in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Fe</mml:mi><mml:mo>(</mml:mo><mml:mrow><mml:msub><mml:mi>Te</mml:mi><mml:mrow><mml:mn>1</mml:mn> films. Physical Review B, 2016, 93, .	1.1	126
15	Coherence depletion in the Grover quantum search algorithm. Physical Review A, 2017, 95, .	1.0	124
16	Entanglement in a Valence-Bond Solid State. Physical Review Letters, 2004, 93, 227203.	2.9	122
17	Quantum cloning machines for equatorial qubits. Physical Review A, 2001, 65, .	1.0	110
18	Phase-covariant quantum cloning of qudits. Physical Review A, 2003, 67, .	1.0	109

#	Article	IF	Citations
19	Unsupervised Generative Modeling Using Matrix Product States. Physical Review X, 2018, 8, .	2.8	109
20	Competition between quantum correlations in the quantum-memory-assisted entropic uncertainty relation. Physical Review A, 2013, 87, .	1.0	108
21	Entropic uncertainty relations for multiple measurements. Physical Review A, 2015, 91, .	1.0	103
22	Correlations in the Grover search. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 045305.	0.7	102
23	Single-photon quantum router with multiple output ports. Scientific Reports, 2014, 4, 4820.	1.6	100
24	Upper bound and shareability of quantum discord based on entropic uncertainty relations. Physical Review A, 2013, 88, .	1.0	92
25	Quantum cloning machines and the applications. Physics Reports, 2014, 544, 241-322.	10.3	88
26	Quantifying coherence in infinite-dimensional systems. Physical Review A, 2016, 93, .	1.0	88
27	Propagation and Localization of Collective Excitations on a 24-Qubit Superconducting Processor. Physical Review Letters, 2019, 123, 050502.	2.9	87
28	Necessary and sufficient conditions for local creation of quantum correlation. Physical Review A, 2012, 85, .	1.0	85
29	Anisotropic Rabi model. Physical Review X, 2014, 4, .	2.8	83
30	Measurement-induced nonlocality based on the trace norm. New Journal of Physics, 2015, 17, 033004.	1.2	83
31	Triplet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>p</mml:mi><mml:mi>z</mml:mi></mml:msub></mml:ma pairing in quasi-one-dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>A</mml:mi><mml:mn>2</mml:mn></mml:mm xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mro. Physical Review B, 2015, 92, .	1.1	82
32	Maximally coherent states and coherence-preserving operations. Physical Review A, 2016, 93, .	1.0	81
33	Probing dynamical phase transitions with a superconducting quantum simulator. Science Advances, 2020, 6, eaba4935.	4.7	80
34	Observation of energy-resolved many-body localization. Nature Physics, 2021, 17, 234-239.	6.5	80
35	Time-correspondence differential ghost imaging. Physical Review A, 2013, 87, .	1.0	79
36	Relative quantum coherence, incompatibility, and quantum correlations of states. Physical Review A, 2017, 95, .	1.0	79

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37	Observation of a Dynamical Quantum Phase Transition by a Superconducting Qubit Simulation. Physical Review Applied, 2019, 11, .	1.5	79
38	Evolution equation for quantum coherence. Scientific Reports, 2016, 6, 29260.	1.6	78
39	Coherence susceptibility as a probe of quantum phase transitions. Physical Review A, 2016, 94, .	1.0	76
40	Classical-driving-assisted quantum speed-up. Physical Review A, 2015, 91, .	1.0	75
41	Robustness of quantum correlations against decoherence. Annals of Physics, 2012, 327, 851-860.	1.0	74
42	Proper monogamy inequality for arbitrary pure quantum states. Physical Review A, 2008, 78, .	1.0	71
43	Abelian and non-Abelian quantum geometric tensor. Physical Review B, 2010, 81, .	1.1	65
44	Dynamics of entropic measurement-induced nonlocality in structured reservoirs. Annals of Physics, 2012, 327, 2343-2353.	1.0	65
45	Quantum phases with differing computational power. Nature Communications, 2012, 3, 812.	5.8	62
46	Quantum-enhanced metrology for multiple phase estimation with noise. Scientific Reports, 2014, 4, 5933.	1.6	61
47	Assisted state discrimination without entanglement. Physical Review A, 2012, 85, .	1.0	58
48	Magnetism in Quasi-One-Dimensional A ₂ Cr ₃ As ₃ (A=K,Rb) Superconductors. Chinese Physics Letters, 2015, 32, 057401.	1.3	55
49	Quantum coherence of multiqubit states in correlated noisy channels. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	55
50	Quantum coherence of steered states. Scientific Reports, 2016, 6, 19365.	1.6	54
51	Quantum correlating power of local quantum channels. Physical Review A, 2013, 87, .	1.0	53
52	Extracting quantum coherence via steering. Scientific Reports, 2016, 6, 34380.	1.6	51
53	Circular-hyperbolic skyrmion in rotating pseudo-spin-1/2 Bose-Einstein condensates with spin-orbit coupling. Physical Review A, 2012, 86, .	1.0	50
54	Role of initial system-bath correlation on coherence trapping. Scientific Reports, 2015, 5, 13359.	1.6	50

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55	Topological band theory for non-Hermitian systems from the Dirac equation. Physical Review B, 2019, 100, .	1.1	50
56	Irreversible degradation of quantum coherence under relativistic motion. Physical Review A, 2016, 93, .	1.0	49
57	Hierarchy of the nonlocal advantage of quantum coherence and Bell nonlocality. Physical Review A, 2018, 98, .	1.0	49
58	Steered quantum coherence as a signature of quantum phase transitions in spin chains. Physical Review A, 2020, 101, .	1.0	49
59	Algebraic Bethe ansatz for the eight-vertex model with general open boundary conditions. Nuclear Physics B, 1996, 478, 723-757.	0.9	47
60	Characterization of Topological States via Dual Multipartite Entanglement. Physical Review Letters, 2018, 120, 250501.	2.9	47
61	Quantify entanglement by concurrence hierarchy. Journal of Physics A, 2003, 36, 4151-4158.	1.6	46
62	Evolution equation for geometric quantum correlation measures. Physical Review A, 2015, 91, .	1.0	46
63	Single-Shot Readout of a Nuclear Spin Weakly Coupled to a Nitrogen-Vacancy Center at Room Temperature. Physical Review Letters, 2017, 118, 150504.	2.9	46
64	Tunable single-photon frequency conversion in a Sagnac interferometer. Scientific Reports, 2013, 3, 3555.	1.6	45
65	Quantum discord and measurement-induced disturbance in the background of dilaton black holes. Physical Review D, 2014, 90, .	1.6	45
66	Nonlocal advantage of quantum coherence in high-dimensional states. Physical Review A, 2018, 98, .	1.0	44
67	Distinguishing bipartite states by local operations and classical communication. Physical Review A, 2007, 75, .	1.0	43
68	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CaFeAs</mml:mi><mml:mn>2</mml:mn></mml:msub></ A staggered intercalation of quantum spin Hall and high-temperature superconductivity. Physical Review B, 2015, 91, .	1.1	43
69	Quantum cloning machines of ad-level system. Physical Review A, 2001, 64, .	1.0	42
70	Quantum correlations in spin models. Annals of Physics, 2011, 326, 2694-2701.	1.0	41
71	Effect of As-chain layers in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>CaFeAs</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml Physical Review B, 2014, 89, .	1.1	41
72	Tunable single-photon diode by chiral quantum physics. Physical Review A, 2018, 98, .	1.0	41

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73	Entropic uncertainty relations under the relativistic motion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 527-532.	1.5	40
74	Maximum coherence in the optimal basis. Physical Review A, 2017, 96, .	1.0	40
75	Gaussian quantum steering and its asymmetry in curved spacetime. Physical Review D, 2016, 93, .	1.6	39
76	Nonlocal advantage of quantum coherence in a dephasing channel with memory*. Chinese Physics B, 2021, 30, 030308.	0.7	38
77	Steering Bell-diagonal states. Scientific Reports, 2016, 6, 22025.	1.6	37
78	Quantum metrological bounds for vector parameters. Physical Review A, 2014, 90, .	1.0	36
79	Relativistic Quantum Metrology in Open System Dynamics. Scientific Reports, 2015, 5, 7946.	1.6	36
80	Exact diagonalization of the quantum supersymmetric SUq(n|m) model. Nuclear Physics B, 1996, 462, 167-191.	0.9	35
81	A double-threshold technique for fast time-correspondence imaging. Applied Physics Letters, 2013, 103, .	1.5	35
82	Quantum metrology and estimation of Unruh effect. Scientific Reports, 2014, 4, 7195.	1.6	35
83	Optimal two-qubit quantum circuits using exchange interactions. Physical Review A, 2005, 72, .	1.0	34
84	Threshold error penalty for fault-tolerant quantum computation with nearest neighbor communication. IEEE Nanotechnology Magazine, 2006, 5, 42-49.	1.1	34
85	Bounds on negativity of superpositions. Physical Review A, 2007, 76, .	1.0	34
86	Control of single-photon transport in a one-dimensional waveguide by a single photon. Physical Review A, 2014, 90, .	1.0	34
87	Super-quantum correlation and geometry for Bell-diagonal states with weak measurements. Quantum Information Processing, 2014, 13, 283-297.	1.0	34
88	g-wave pairing in BiS ₂ superconductors. Europhysics Letters, 2014, 108, 27006.	0.7	34
89	Antiparity-Time Symmetry in Passive Nanophotonics. ACS Photonics, 2020, 7, 3035-3041.	3.2	34
90	Demonstration of entanglement-enhanced phase estimation in solid. Nature Communications, 2015, 6, 6726.	5.8	33

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91	The Euler number of Bloch states manifold and the quantum phases in gapped fermionic systems. Europhysics Letters, 2013, 103, 10008.	0.7	31
92	Tunable Band Topology Reflected by Fractional Quantum Hall States in Two-Dimensional Lattices. Physical Review Letters, 2013, 111, 186804.	2.9	30
93	Decay of multiqudit entanglement. Physical Review A, 2009, 79, .	1.0	29
94	General monogamy property of global quantum discord and the application. Annals of Physics, 2014, 348, 256-269.	1.0	29
95	Quantum coherence in a quantum heat engine. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 085301.	0.7	29
96	Entanglement RÃ©nyi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math>entropy. Physical Review A, 2016, 93, .	1.0	28
97	Uncertainty relation in Schwarzschild spacetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 198-204.	1.5	27
98	Influence of relativistic effects on satellite-based clock synchronization. Physical Review D, 2016, 93, .	1.6	26
99	Hierarchical-environment-assisted non-Markovian speedup dynamics control. Physical Review A, 2018, 98, .	1.0	26
100	Observing Information Backflow from Controllable Non-Markovian Multichannels in Diamond. Physical Review Letters, 2020, 124, 210502.	2.9	26
101	Observation of Thermalization and Information Scrambling in a Superconducting Quantum Processor. Physical Review Letters, 2022, 128, 160502.	2.9	26
102	Solution of Reflection Equation. Communications in Theoretical Physics, 1995, 23, 163-166.	1.1	25
103	Bethe ansatz for the Izergin-Korepin model. Nuclear Physics B, 1997, 488, 409-425.	0.9	25
104	Edge-mode combinations in the entanglement spectra of non-Abelian fractional quantum Hall states on the torus. Physical Review B, 2012, 85, .	1.1	25
105	Local characterization of one-dimensional topologically ordered states. Physical Review B, 2013, 88, .	1.1	25
106	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>l</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:m -norm coherence of assistance. Physical Review A, 2019, 100, .	1.0	25
107	Observation of Bloch oscillations and Wannier-Stark localization on a superconducting quantum processor. Npj Quantum Information, 2021, 7, .	2.8	25
108	Magnetic ordering and multiferroicity in MnI<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 86, .	1.1	24

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109	Unbounded quantum Fisher information in two-path interferometry with finite photon number. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 035302.	0.7	24
110	Genuine multipartite entanglement detection and lower bound of multipartite concurrence. Physical Review A, 2015, 92, .	1.0	24
111	Enhancing entanglement trapping by weak measurement and quantum measurement reversal. Annals of Physics, 2015, 354, 203-212.	1.0	24
112	Parameter estimation for an expanding universe. Nuclear Physics B, 2015, 892, 390-399.	0.9	24
113	Quantum correlation dynamics of two qubits in noisy environments: The factorization law and beyond. Annals of Physics, 2012, 327, 2074-2084.	1.0	23
114	Topological Quantum Phase Transition in Synthetic Non-Abelian Gauge Potential: Gauge Invariance and Experimental Detections. Scientific Reports, 2013, 3, 2119.	1.6	23
115	General solution of reflection equation for eight-vertex SOS model. Journal of Physics A, 1995, 28, 4743-4749.	1.6	22
116	Quantum-information approach to the quantum phase transition in the Kitaev honeycomb model. Physical Review A, 2010, 82, .	1.0	22
117	Zeno dynamics in quantum open systems. Scientific Reports, 2015, 5, 11509.	1.6	22
118	Solid-state optimal phase-covariant quantum cloning machine. Applied Physics Letters, 2011, 99, .	1.5	21
119	Entanglement spectrum of Su-Schrieffer-Heeger-Hubbard model. Physical Review B, 2016, 94, .	1.1	21
120	The influence of Unruh effect on quantum steering for accelerated two-level detectors with different measurements. Annals of Physics, 2018, 390, 334-344.	1.0	21
121	Dynamical quantum phase transition for mixed states in open systems. Physical Review B, 2018, 98, .	1.1	21
122	Entanglement and off-diagonal long-range order of an Î·-pairing state. Journal of Physics A, 2005, 38, 5285-5292.	1.6	20
123	Dynamics of geometric discord and measurement-induced nonlocality at finite temperature. European Physical Journal D, 2012, 66, 1.	0.6	20
124	Revisitation of superconductivity in K ₂ Cr ₃ As ₃ based on the six-band model. Europhysics Letters, 2016, 113, 37003.	0.7	20
125	Quantum computation of molecular response properties. Physical Review Research, 2020, 2, .	1.3	20
126	Metrological Characterization of Non-Gaussian Entangled States of Superconducting Qubits. Physical Review Letters, 2022, 128, 150501.	2.9	20

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127	Entanglement concentration by ordinary linear optical devices without postselection. Physical Review A, 2003, 68, .	1.0	19
128	All-optical router at single-photon level by interference. Europhysics Letters, 2015, 111, 64005.	0.7	19
129	Quantum cloning of mixed states in symmetric subspaces. Physical Review A, 2003, 68, .	1.0	18
130	Unified universal quantum cloning machine and fidelities. Physical Review A, 2011, 84, .	1.0	18
131	Non-zero total correlation means non-zero quantum correlation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1249-1253.	0.9	17
132	Effect of local channels on quantum steering ellipsoids. Physical Review A, 2015, 91, .	1.0	17
133	Crystallized and amorphous vortices in rotating atomic-molecular Bose-Einstein condensates. Scientific Reports, 2015, 4, 4224.	1.6	17
134	Outâ€ofâ€Timeâ€Order Correlators and Quantum Phase Transitions in the Rabi and Dicke Models. Annalen Der Physik, 2020, 532, 1900270.	0.9	17
135	Demonstration of a non-Abelian geometric controlled-NOT gate in a superconducting circuit. Optica, 2021, 8, 972.	4.8	17
136	Decoherence of a central quantum system coupled to anXYspin chain. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 2455-2461.	0.7	16
137	Genuine correlations of tripartite system. Quantum Information Processing, 2013, 12, 2371-2383.	1.0	16
138	Criterion for remote clock synchronization with Heisenberg-scaling accuracy. Physical Review A, 2013, 88, .	1.0	16
139	Local Convertibility and the Quantum Simulation of Edge States in Many-Body Systems. Physical Review X, 2014, 4, .	2.8	16
140	Exact analysis of the spectral properties of the anisotropic two-bosons Rabi model. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 204001.	0.7	16
141	Coherence transformations in single qubit systems. Scientific Reports, 2017, 7, 14806.	1.6	16
142	Observation of Strong and Weak Thermalization in a Superconducting Quantum Processor. Physical Review Letters, 2021, 127, 020602.	2.9	16
143	Exact diagonalization of the generalized supersymmetrictâ^'Jmodel with boundaries. Physical Review B, 2000, 61, 3450-3469.	1.1	15
144	Monogamy deficit for quantum correlations in a multipartite quantum system. Physical Review A, 2013, 87, .	1.0	15

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145	Quantum network teleportation for quantum information distribution and concentration. Physical Review A, 2013, 87, .	1.0	15
146	Einstein-Podolsky-Rosen correlations and Bell correlations in the simplest scenario. Physical Review A, 2017, 95, .	1.0	15
147	Deterministic versus probabilistic quantum information masking. Physical Review A, 2019, 99, .	1.0	15
148	Feedback ansatz for adaptive-feedback quantum metrology training with machine learning. Physical Review A, 2020, 101, .	1.0	15
149	Probabilistic nonunitary gate in imaginary time evolution. Quantum Information Processing, 2021, 20, 1.	1.0	15
150	Boundary effects on entropy and two-site entanglement of the spin-1 valence-bond solid. Physical Review B, 2007, 76, .	1.1	14
151	Particle entanglement in rotating gases. Physical Review A, 2010, 81, .	1.0	14
152	Determinant representations for scalar products of the XXZ Gaudin model with general boundary terms. Nuclear Physics B, 2012, 862, 835-849.	0.9	14
153	One-way unlocalizable quantum discord. Physical Review A, 2012, 85, .	1.0	14
154	Fitting magnetic field gradient with Heisenberg-scaling accuracy. Scientific Reports, 2014, 4, 7390.	1.6	14
155	Global quantum discord and quantum phase transition in XY model. Annals of Physics, 2015, 362, 805-813.	1.0	14
156	Control of quantum dynamics: Non-Markovianity and the speedup of the open system evolution. Europhysics Letters, 2016, 116, 30001.	0.7	14
157	Experimental investigation of quantum entropic uncertainty relations for multiple measurements in pure diamond. Scientific Reports, 2017, 7, 2563.	1.6	14
158	Non-monogamy of quantum discord and upper bounds for quantum correlation. Quantum Information and Computation, 2013, 13, 469-478.	0.1	14
159	Quantum generative adversarial networks with multiple superconducting qubits. Npj Quantum Information, 2021, 7, .	2.8	14
160	Entanglement spectrum: Identification of the transition from vortex-liquid to vortex-lattice state in a weakly interacting rotating Bose-Einstein condensate. Physical Review A, 2011, 83, .	1.0	13
161	General quantum key distribution in higher dimension. Physical Review A, 2012, 85, .	1.0	13
162	Preservation of entanglement in a two-qubit-spin coupled system. Annals of Physics, 2012, 327, 292-296.	1.0	13

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163	Quantum Correlation Induced by the Average Distance Between the Reduced States. International Journal of Theoretical Physics, 2015, 54, 2022-2030.	0.5	13
164	Finite-size scaling of coherence and steered coherence in the Lipkin-Meshkov-Glick model. Physical Review A, 2021, 104, .	1.0	13
165	Integrable open-boundary conditions for the Zn Ã— Zn Belavin model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 200, 109-114.	0.9	12
166	Cloning of symmetricd-level photonic states in physical systems. Physical Review A, 2002, 66, .	1.0	12
167	Dynamics of the bounds of squared concurrence. Physical Review A, 2009, 79, .	1.0	12
168	Quantum-information approach to rotating Bose-Einstein condensates. Physical Review A, 2009, 80, .	1.0	12
169	Room-Temperature Quantum Cloning Machine with Full Coherent Phase Control in Nanodiamond. Scientific Reports, 2013, 3, 1498.	1.6	12
170	Impossibility of masking a set of quantum states of nonzero measure. Physical Review A, 2020, 101, .	1.0	12
171	Experimental demonstration of entanglement-enabled universal quantum cloning in a circuit. Npj Quantum Information, 2021, 7, .	2.8	12
172	Phase-covariant quantum cloning. Journal of Physics A, 2002, 35, 7415-7423.	1.6	11
173	SUDDEN CHANGE OF QUANTUM DISCORD UNDER SINGLE QUBIT NOISE. International Journal of Quantum Information, 2013, 11, 1350048.	0.6	11
174	General fine-grained uncertainty relation and the second law of thermodynamics. Physical Review A, 2014, 90, .	1.0	11
175	Quantum estimation in an expanding spacetime. Annals of Physics, 2018, 397, 336-350.	1.0	11
176	Nonlocal advantage of quantum coherence and entanglement of two spins under intrinsic decoherence*. Chinese Physics B, 2021, 30, 070307.	0.7	11
177	Observation of emergent <mml:math 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> gauge invariance in a superconducting circuit. Physical Review Research, 2022, 4, .	1.3	11
178	Integrable $A^{(1)}_{n-1}$ IRF Model with Reflecting Boundary Conditions. Modern Physics Letters A, 1997, 12, 1929-1942.	0.5	10
179	A new solution to the reflection equation for the Zn symmetric Belavin model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 250, 79-87.	0.9	10
180	Entanglement-assisted local operations and classical communications conversion in quantum critical systems. Physical Review A, 2012, 85, .	1.0	10

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181	Notes on teleportation in an expanding space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 430-434.	1.5	10
182	Quantum error-correcting codes over mixed alphabets. Physical Review A, 2013, 88, .	1.0	10
183	Speedup of quantum evolution of multiqubit entanglement states. Scientific Reports, 2016, 6, 27349.	1.6	10
184	Monogamy of Einsteinâ€Podolskyâ€Rosen Steering in the Background of an Asymptotically Flat Black Hole. Annalen Der Physik, 2018, 530, 1700261.	0.9	10
185	Scalable quantum tomography with fidelity estimation. Physical Review A, 2020, 101, .	1.0	10
186	Characterizing the many-body localization transition by the dynamics of diagonal entropy. Physical Review Research, 2020, 2, .	1.3	10
187	Limits on sequential sharing of nonlocal advantage of quantum coherence. Science China: Physics, Mechanics and Astronomy, 2022, 65, .	2.0	10
188	The Fermion-ladder models: extensions of the Hubbard model with eta-pairing. Journal of Physics A, 1999, 32, L509-L513.	1.6	9
189	Boundary impurities in the generalized supersymmetrict-Jmodel. Journal of Physics A, 2000, 33, 6187-6202.	1.6	9
190	Integrable boundary impurities in the â€“ model with different gradings. Nuclear Physics B, 2001, 599, 561-581.	0.9	9
191	Optimal broadcasting of mixed states. Physical Review A, 2007, 76, .	1.0	9
192	Entanglement evolution in multipartite cavity-reservoir systems under local unitary operations. European Physical Journal D, 2011, 64, 557-563.	0.6	9
193	Finite-field calculation of the polarizabilities and hyperpolarizabilities of Al<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mo>+</mml:mo></mml:msup></mml:math>. Physical Review A, 2013, 88, .	1.0	9
194	Environment-assisted non-Markovian speedup dynamics control. Annals of Physics, 2018, 388, 1-11.	1.0	9
195	One-shot assisted distillation of coherence via one-way local quantum-incoherent operations and classical communication. Physical Review A, 2020, 102, .	1.0	9
196	Representation of the boundary elliptic quantum group BEÏ„Î·(sl2) and the Bethe ansatz. Nuclear Physics B, 1997, 496, 551-570.	0.9	8
197	A sufficient and necessary condition for 2nâˆ’1 orthogonal states to be locally distinguishable in aC2âŠ—Cnsystem. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 325303.	0.7	8
198	Detecting genuine multipartite correlations in terms of the rank of coefficient matrix. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 505301.	0.7	8

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199	Quantum dissonance is rejected in an overlap measurement scheme. Physical Review A, 2012, 86, .	1.0	8
200	Dual roles of quantum discord in a nondemolition probing task. Physical Review A, 2013, 87, .	1.0	8
201	Finite-field calculation of static polarizabilities and hyperpolarizabilities ofIn+and Sr. Physical Review A, 2015, 92, .	1.0	8
202	One-way deficit of two-qubit $$X$$ X states. Quantum Information Processing, 2015, 14, 2487-2497.	1.0	8
203	Two-copy Quantum Teleportation. Scientific Reports, 2018, 8, 13960.	1.6	8
204	Fine-grained uncertainty relations under relativistic motion. Europhysics Letters, 2018, 122, 60001.	0.7	8
205	Complementary relation of quantum coherence and quantum correlations in multiple measurements. Scientific Reports, 2019, 9, 268.	1.6	8
206	Unified and Exact Framework for Variance-Based Uncertainty Relations. Scientific Reports, 2020, 10, 150.	1.6	8
207	Quantum information scrambling in the presence of weak and strong thermalization. Physical Review A, 2021, 104, .	1.0	8
208	Stark many-body localization transitions in superconducting circuits. Physical Review B, 2021, 104, .	1.1	8
209	Walgebra in the SU(3) parafermion model. Physical Review Letters, 1993, 70, 2228-2231.	2.9	7
210	The general solutions to the reflection equation of the Izergin-Korepin model. Journal of Physics A, 1999, 32, 6021-6032.	1.6	7
211	Minimal input sets determining phase-covariant and universal quantum cloning. Physical Review A, 2012, 86, .	1.0	7
212	Bell inequalities violation within non-Bunchâ€“Davies states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 403-409.	1.5	7
213	One-way deficit and quantum phase transitions in XY model and extended Ising model. Quantum Information Processing, 2019, 18, 1.	1.0	7
214	Amplifying asymmetry with correlating catalysts. Physical Review A, 2021, 103, .	1.0	7
215	Quantum coherence. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 030304.	0.2	7
216	Stabilizer dimension of graph states. Physical Review A, 2009, 79, .	1.0	6

#	Article	IF	Citations
217	Entangling power in deterministic quantum computation with one qubit. Physical Review A, 2013, 87, .	1.0	6
218	Role of Weak Measurements on States Ordering and Monogamy of Quantum Correlation. International Journal of Theoretical Physics, 2015, 54, 62-71.	0.5	6
219	Thermalization of topological entropy after a quantum quench. Physical Review B, 2016, 94, .	1.1	6
220	Quantum Criticality in the Biased Dicke Model. Scientific Reports, 2016, 6, 19751.	1.6	6
221	Classical-driving-assisted entanglement dynamics control. Annals of Physics, 2017, 379, 187-197.	1.0	6
222	Investigating disordered many-body system with entanglement in momentum space. Scientific Reports, 2017, 7, 16668.	1.6	6
223	Entropic cohering power in quantum operations. Quantum Information Processing, 2018, 17, 1.	1.0	6
224	W3-algebra constructed from the SU(3) parafermion. Nuclear Physics B, 1994, 422, 307-328.	0.9	5
225	Integrable Boundary Conditions Associated with the Zn Ã— Zn Belavin Model and Solutions of Reflection Equation. International Journal of Modern Physics A, 1997, 12, 2809-2823.	0.5	5
226	Exact solution for small-polaron model with boundaries. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 251, 79-85.	0.9	5
227	Algebraic Bethe ansatz for the supersymmetric tâˆ’J model with reflecting boundary conditions. Nuclear Physics B, 1999, 541, 483-505.	0.9	5
228	A note on quantum entropy inequalities and channel capacities. Journal of Physics A, 2003, 36, 12081-12088.	1.6	5
229	Probing Planckian physics in de Sitter space with quantum correlations. Annals of Physics, 2014, 351, 872-899.	1.0	5
230	Operation-triggered quantum clock synchronization. Physical Review A, 2015, 92, .	1.0	5
231	Second law of thermodynamics with quantum memory. Physical Review A, 2017, 96, .	1.0	5
232	Non-Markovian speedup dynamics control of the damped Jaynesâ€“Cummings model with detuning. Chinese Physics B, 2018, 27, 010302.	0.7	5
233	Approximate quantum state reconstruction without a quantum channel. Physical Review A, 2018, 98, .	1.0	5
234	Quench dynamics of entanglement spectra and topological superconducting phases in a long-range Hamiltonian. Physical Review A, 2020, 101, .	1.0	5

#	Article	IF	Citations
235	Two-copy quantum teleportation based on GHZ measurement. Quantum Information Processing, 2020, 19, 1.	1.0	5
236	FermionicR-Operator Approach for the Small-Polaron Model with Open Boundary Condition. Journal of the Physical Society of Japan, 1999, 68, 3826-3830.	0.7	5
237	Quantum Simulation of Lattice Gauge Theories on Superconducting Circuits: Quantum Phase Transition and Quench Dynamics. Chinese Physics B, 0, , .	0.7	5
238	Multipartite entanglement of the topologically ordered state in a perturbed toric code. Physical Review Research, 2022, 4, .	1.3	5
239	Interaction- and filling-induced quantum anomalous Hall effect in ultracold neutral Bose-Fermi mixtures on a hexagonal lattice. Physical Review A, 2013, 87, .	1.0	4
240	Superadditivity of quantum-correlating power. Physical Review A, 2013, 88, .	1.0	4
241	Single-outcome information gain of qubit measurements on different state ensembles. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 305302.	0.7	4
242	Majorization Relation in Quantum Critical Systems. Chinese Physics Letters, 2014, 31, 076401.	1.3	4
243	Density functional calculations of a staggered FeSe monolayer on aSrTiO3(110) surface. Physical Review B, 2016, 94, .	1.1	4
244	Coherence as resource in scattering quantum walk search on complete graph. Scientific Reports, 2018, 8, 11081.	1.6	4
245	Quantum Cloning Machines. , 2006, , 63-109.		4
246	Localization of rung pairs in a hard-core Bose-Hubbard ladder. Physical Review A, 2020, 102, .	1.0	4
247	Bosonization of vertex operators for the -symmetric Belavin model. Journal of Physics A, 1997, 30, 5687-5696.	1.6	3
248	Drinfeld constructions of the quantum affine superalgebra Uq(gl (m/nÌ,)). Journal of Mathematical Physics, 1997, 38, 411-433.	0.5	3
249	The elliptic quantum algebra Aq,p(slnâˆ§) and its bosonization at level one. Journal of Mathematical Physics, 1998, 39, 4356-4368.	0.5	3
250	General sequential quantum cloning. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 155303.	0.7	3
251	Exact solutions of a multi-component anyon model withSU(N) invariance. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 045207.	0.7	3
252	Quantum algorithm for solving some discrete mathematical problems by probing their energy spectra. Physical Review A, 2014, 89, .	1.0	3

#	Article	IF	Citations
253	Classification of no-signaling correlation and the â€œguess your neighbor's inputâ€•game. Physical Review A, 2014, 90, .	1.0	3
254	Fermionic non-Abelian fractional Chern insulators from dipolar interactions. Physical Review B, 2015, 91, .	1.1	3
255	Expected number of quantum channels in quantum networks. Scientific Reports, 2015, 5, 12128.	1.6	3
256	Maximal Holevo Quantity Based on Weak Measurements. Scientific Reports, 2015, 5, 10727.	1.6	3
257	A generalization of Schmidt number for multipartite states. International Journal of Quantum Information, 2015, 13, 1550025.	0.6	3
258	Phase diagram of quantum critical system via local convertibility of ground state. Scientific Reports, 2016, 6, 29175.	1.6	3
259	12 superconducting qubits for quantum walks. Frontiers of Physics, 2019, 14, 1.	2.4	3
260	Quantum speedup dynamics process without non-Markovianity. Quantum Information Processing, 2021, 20, 1.	1.0	3
261	Zamolodchikov-Faddeev algebra related to Znsymmetric elliptic R-matrix. Journal of Physics A, 1995, 28, 3157-3175.	1.6	2
262	Boundary K-operator for the elliptic R-operator acting on functional space. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 230, 19-23.	0.9	2
263	Bethe Ansatz for the One-Dimensional Small-Polaron Model with Open Boundary Conditions. Journal of the Physical Society of Japan, 2000, 69, 251-258.	0.7	2
264	Correlation properties of anisotropic XY model with a sudden quench. European Physical Journal B, 2011, 79, 503-507.	0.6	2
265	Optimal asymmetric 1Ââ†'Â4 quantum cloning in arbitrary dimension. European Physical Journal D, 2011, 65, 621-625.	0.6	2
266	Quantum information approach to a Boseâ€“Einstein condensate in a tilted double-well system. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 055301.	0.6	2
267	Testing Quantum Entanglement with Local Measurement. Chinese Physics Letters, 2012, 29, 070306.	1.3	2
268	Fidelity of measurement-based quantum computation in a bosonic environment. Physical Review A, 2014, 90, .	1.0	2
269	Adjustable electromagnetically induced transparency and absorption, optical controlled-phase gate in semiconductor quantum wells. European Physical Journal D, 2014, 68, 1.	0.6	2
270	Quantum metrology via repeated quantum nondemolition measurements in a photon box. Physical Review A, 2015, 91, .	1.0	2

#	Article	IF	Citations
271	Diagonal entropy and topological phase transitions in extended Kitaev chains. Annals of Physics, 2019, 411, 167967.	1.0	2
272	Characterizing multipartite entanglement by violation of CHSH inequalities. Quantum Information Processing, 2020, 19, 1.	1.0	2
273	Efficient implementation of quantum arithmetic operation circuits. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	2
274	Multipartite Entanglement Structure Resolution Analyzer Based on Quantumâ€Controlâ€Assisted Multipartite Uncertainty Relation. Annalen Der Physik, 2021, 533, 2100014.	0.9	2
275	Exponential speedup of quantum newton optimization algorithm for general polynomials. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	2
276	Non-Markovian dynamics control of spin-1/2 system interacting with magnets. New Journal of Physics, 2021, 23, 113004.	1.2	2
277	A one-dimensional many-body integrable model from Zn Belavin model with open boundary conditions. Journal of Mathematical Physics, 1998, 39, 4746-4758.	0.5	1
278	Bethe Ansatz for theSU(4)Extension of the Hubbard Model. Journal of the Physical Society of Japan, 2000, 69, 3797-3804.	0.7	1
279	Remarks on entanglement assisted classical capacity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 313, 182-187.	0.9	1
280	Exciton condensation in cavity quantum electrodynamics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 055302.	0.6	1
281	Diffraction of Bose-Einstein condensates in quantized light fields. Physical Review A, 2011, 84, .	1.0	1
282	Non-compression of quantum phase information. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 025304.	0.7	1
283	Multipartite distribution property of one way discord beyond measurement. Annals of Physics, 2015, 354, 157-164.	1.0	1
284	Correspondence: Reply to â€˜Enhancing a phase measurement by sequentially probing a solid-state systemâ€™. Nature Communications, 2016, 7, 11521.	5.8	1
285	Multipartite Quantum Clock Synchronization under The Influence of Unruh Thermal Noise. Annalen Der Physik, 2019, 531, 1900067.	0.9	1
286	Strong Superadditive Deficit of Coherence and Quantum Correlations Distribution. Chinese Physics Letters, 2019, 36, 080303.	1.3	1
287	Achieving the Heisenberg limit under general Markovian noise using quantum error correction without ancilla. Quantum Information Processing, 2020, 19, 1.	1.0	1
288	Diagonal entropy in many-body systems: Volume effect and quantum phase transitions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126333.	0.9	1

#	Article	IF	Citations
289	Coherence enhancement in state transfer with seven-qubit superconducting processor. Fundamental Research, 2021, 1, 5.	1.6	1
290	Different Bell Inequalities as Probes to Detect Quantum Phase Transitions. International Journal of Theoretical Physics, 2021, 60, 1611-1623.	0.5	1
291	Discrete time crystal in a driven-dissipative Bose-Hubbard model with two-photon processes. Physical Review A, 2022, 105, .	1.0	1
292	Beating standard quantum limit via two-axis magnetic susceptibility measurement. Chinese Physics B, 0, , .	0.7	1
293	Measuring Loschmidt echo via Floquet engineering in superconducting circuits. Chinese Physics B, 2022, 31, 030307.	0.7	1
294	The Unitarity of the W (3) Algebra from SU(3) Parafermion. Communications in Theoretical Physics, 1996, 26, 197-202.	1.1	0
295	Fusion procedure for the Belavin model with open boundary conditions. Journal of Physics A, 1996, 29, 5735-5743.	1.6	0
296	Properties of eigenstates of the six-vertex model with twisted and open boundary conditions. Journal of Mathematical Physics, 1997, 38, 3446-3456.	0.5	0
297	The dynamical Yangâ€“Baxter relation and the minimal representation of the elliptic quantum group. Journal of Mathematical Physics, 2003, 44, 1276-1296.	0.5	0
298	Quantum discord: â€˜discordâ€™ between the whole and its constituent. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 425304.	0.7	0
299	Constructing positive maps from block matrices. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 265303.	0.7	0
300	Suppressing correlated noise in signals transmitted over the Gaussian memory channels using a2N-port splitter and phase flips. Physical Review A, 2014, 90, .	1.0	0
301	Quantum entanglement between amide-I and amide-site in Davydov-Scott model. European Physical Journal D, 2014, 68, 1.	0.6	0
302	Quantum error correction assisted by two-way noisy communication. Scientific Reports, 2015, 4, 7203.	1.6	0
303	Construction of Complete Orthogonal Genuine Multipartite Entanglement State*. Chinese Physics Letters, 2019, 36, 060301.	1.3	0
304	Robustness and independence of the eigenstates with respect to the boundary conditions across a delocalization-localization phase transition. Physical Review B, 2020, 102, .	1.1	0
305	Ferromagnetic Heisenberg spin chain in a resonator. Chinese Physics B, 2021, 30, 090506.	0.7	0
306	Geometrical analysis of probabilistic quantum cloning and identification of N states. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 325301.	0.7	0

#	Article	IF	Citations
307	Quantum Cloning Machines. , 2006, , 63-110.		0