

Heng Fan

List of Publications by Year in descending order

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307
papers

9,512
citations

36203

51
h-index

54797

84
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all docs

308
docs citations

308
times ranked

5977
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrete time crystal in a driven-dissipative Bose-Hubbard model with two-photon processes. <i>Physical Review A</i> , 2022, 105, .	1.0	1
2	Measuring Loschmidt echo via Floquet engineering in superconducting circuits. <i>Chinese Physics B</i> , 2022, 31, 030307.	0.7	1
3	Observation of Thermalization and Information Scrambling in a Superconducting Quantum Processor. <i>Physical Review Letters</i> , 2022, 128, 160502.	2.9	26
4	Metrological Characterization of Non-Gaussian Entangled States of Superconducting Qubits. <i>Physical Review Letters</i> , 2022, 128, 150501.	2.9	20
5	Limits on sequential sharing of nonlocal advantage of quantum coherence. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, .	2.0	10
6	Multipartite entanglement of the topologically ordered state in a perturbed toric code. <i>Physical Review Research</i> , 2022, 4, .	1.3	5
7	Observation of emergent \mathbb{Z}_2 gauge invariance in a superconducting circuit. <i>Physical Review Research</i> , 2022, 4, .	1.3	11
8	Efficient implementation of quantum arithmetic operation circuits. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	2
9	Observation of energy-resolved many-body localization. <i>Nature Physics</i> , 2021, 17, 234-239.	6.5	80
10	Coherence enhancement in state transfer with seven-qubit superconducting processor. <i>Fundamental Research</i> , 2021, 1, 5.	1.6	1
11	Nonlocal advantage of quantum coherence in a dephasing channel with memory*. <i>Chinese Physics B</i> , 2021, 30, 030308.	0.7	38
12	Amplifying asymmetry with correlating catalysts. <i>Physical Review A</i> , 2021, 103, .	1.0	7
13	Experimental demonstration of entanglement-enabled universal quantum cloning in a circuit. <i>Npj Quantum Information</i> , 2021, 7, .	2.8	12
14	Observation of Bloch oscillations and Wannier-Stark localization on a superconducting quantum processor. <i>Npj Quantum Information</i> , 2021, 7, .	2.8	25
15	Quantum speedup dynamics process without non-Markovianity. <i>Quantum Information Processing</i> , 2021, 20, 1.	1.0	3
16	Different Bell Inequalities as Probes to Detect Quantum Phase Transitions. <i>International Journal of Theoretical Physics</i> , 2021, 60, 1611-1623.	0.5	1
17	Multipartite Entanglement Structure Resolution Analyzer Based on Quantum-Control-Assisted Multipartite Uncertainty Relation. <i>Annalen Der Physik</i> , 2021, 533, 2100014.	0.9	2
18	Probabilistic nonunitary gate in imaginary time evolution. <i>Quantum Information Processing</i> , 2021, 20, 1.	1.0	15

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19	Demonstration of a non-Abelian geometric controlled-NOT gate in a superconducting circuit. <i>Optica</i> , 2021, 8, 972.	4.8	17
20	Observation of Strong and Weak Thermalization in a Superconducting Quantum Processor. <i>Physical Review Letters</i> , 2021, 127, 020602.	2.9	16
21	Nonlocal advantage of quantum coherence and entanglement of two spins under intrinsic decoherence*. <i>Chinese Physics B</i> , 2021, 30, 070307.	0.7	11
22	Quantum information scrambling in the presence of weak and strong thermalization. <i>Physical Review A</i> , 2021, 104, .	1.0	8
23	Exponential speedup of quantum newton optimization algorithm for general polynomials. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	2
24	Ferromagnetic Heisenberg spin chain in a resonator. <i>Chinese Physics B</i> , 2021, 30, 090506.	0.7	0
25	Non-Markovian dynamics control of spin-1/2 system interacting with magnets. <i>New Journal of Physics</i> , 2021, 23, 113004.	1.2	2
26	Stark many-body localization transitions in superconducting circuits. <i>Physical Review B</i> , 2021, 104, .	1.1	8
27	Quantum generative adversarial networks with multiple superconducting qubits. <i>Npj Quantum Information</i> , 2021, 7, .	2.8	14
28	Finite-size scaling of coherence and steered coherence in the Lipkin-Meshkov-Glick model. <i>Physical Review A</i> , 2021, 104, .	1.0	13
29	Robustness and independence of the eigenstates with respect to the boundary conditions across a delocalization-localization phase transition. <i>Physical Review B</i> , 2020, 102, .	1.1	0
30	Achieving the Heisenberg limit under general Markovian noise using quantum error correction without ancilla. <i>Quantum Information Processing</i> , 2020, 19, 1.	1.0	1
31	Antiparity-Time Symmetry in Passive Nanophotonics. <i>ACS Photonics</i> , 2020, 7, 3035-3041.	3.2	34
32	One-shot assisted distillation of coherence via one-way local quantum-incoherent operations and classical communication. <i>Physical Review A</i> , 2020, 102, .	1.0	9
33	Observing Information Backflow from Controllable Non-Markovian Multichannels in Diamond. <i>Physical Review Letters</i> , 2020, 124, 210502.	2.9	26
34	Quench dynamics of entanglement spectra and topological superconducting phases in a long-range Hamiltonian. <i>Physical Review A</i> , 2020, 101, .	1.0	5
35	Two-copy quantum teleportation based on GHZ measurement. <i>Quantum Information Processing</i> , 2020, 19, 1.	1.0	5
36	Characterizing multipartite entanglement by violation of CHSH inequalities. <i>Quantum Information Processing</i> , 2020, 19, 1.	1.0	2

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37	Steered quantum coherence as a signature of quantum phase transitions in spin chains. <i>Physical Review A</i> , 2020, 101, .	1.0	49
38	Probing dynamical phase transitions with a superconducting quantum simulator. <i>Science Advances</i> , 2020, 6, eaba4935.	4.7	80
39	Feedback ansatz for adaptive-feedback quantum metrology training with machine learning. <i>Physical Review A</i> , 2020, 101, .	1.0	15
40	Diagonal entropy in many-body systems: Volume effect and quantum phase transitions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126333.	0.9	1
41	Out-of-Time-Order Correlators and Quantum Phase Transitions in the Rabi and Dicke Models. <i>Annalen Der Physik</i> , 2020, 532, 1900270.	0.9	17
42	Quantum coherence in a quantum heat engine. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 085301.	0.7	29
43	Quantum coherence of multiqubit states in correlated noisy channels. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	2.0	55
44	Unified and Exact Framework for Variance-Based Uncertainty Relations. <i>Scientific Reports</i> , 2020, 10, 150.	1.6	8
45	Impossibility of masking a set of quantum states of nonzero measure. <i>Physical Review A</i> , 2020, 101, .	1.0	12
46	Scalable quantum tomography with fidelity estimation. <i>Physical Review A</i> , 2020, 101, .	1.0	10
47	Localization of rung pairs in a hard-core Bose-Hubbard ladder. <i>Physical Review A</i> , 2020, 102, .	1.0	4
48	Characterizing the many-body localization transition by the dynamics of diagonal entropy. <i>Physical Review Research</i> , 2020, 2, .	1.3	10
49	Quantum computation of molecular response properties. <i>Physical Review Research</i> , 2020, 2, .	1.3	20
50	Geometrical analysis of probabilistic quantum cloning and identification of $\langle i \rangle_N$ states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 325301.	0.7	0
51	Generation of multicomponent atomic Schrödinger cat states of up to 20 qubits. <i>Science</i> , 2019, 365, 574-577.	6.0	235
52	Propagation and Localization of Collective Excitations on a 24-Qubit Superconducting Processor. <i>Physical Review Letters</i> , 2019, 123, 050502.	2.9	87
53	Topological band theory for non-Hermitian systems from the Dirac equation. <i>Physical Review B</i> , 2019, 100, .	1.1	50
54	$\langle m \rangle$ norm coherence of assistance. <i>Physical Review A</i> , 2019, 100, .	1.1	25

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55	12 superconducting qubits for quantum walks. <i>Frontiers of Physics</i> , 2019, 14, 1.	2.4	3
56	Diagonal entropy and topological phase transitions in extended Kitaev chains. <i>Annals of Physics</i> , 2019, 411, 167967.	1.0	2
57	Complementary relation of quantum coherence and quantum correlations in multiple measurements. <i>Scientific Reports</i> , 2019, 9, 268.	1.6	8
58	Multipartite Quantum Clock Synchronization under The Influence of Unruh Thermal Noise. <i>Annalen Der Physik</i> , 2019, 531, 1900067.	0.9	1
59	Deterministic versus probabilistic quantum information masking. <i>Physical Review A</i> , 2019, 99, .	1.0	15
60	Construction of Complete Orthogonal Genuine Multipartite Entanglement State*. <i>Chinese Physics Letters</i> , 2019, 36, 060301.	1.3	0
61	Observation of a Dynamical Quantum Phase Transition by a Superconducting Qubit Simulation. <i>Physical Review Applied</i> , 2019, 11, .	1.5	79
62	Strongly correlated quantum walks with a 12-qubit superconducting processor. <i>Science</i> , 2019, 364, 753-756.	6.0	169
63	Strong Superadditive Deficit of Coherence and Quantum Correlations Distribution. <i>Chinese Physics Letters</i> , 2019, 36, 080303.	1.3	1
64	One-way deficit and quantum phase transitions in XY model and extended Ising model. <i>Quantum Information Processing</i> , 2019, 18, 1.	1.0	7
65	Quantum coherence. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019, 68, 030304.	0.2	7
66	The influence of Unruh effect on quantum steering for accelerated two-level detectors with different measurements. <i>Annals of Physics</i> , 2018, 390, 334-344.	1.0	21
67	Non-Markovian speedup dynamics control of the damped Jaynes-Cummings model with detuning. <i>Chinese Physics B</i> , 2018, 27, 010302.	0.7	5
68	Emulating Many-Body Localization with a Superconducting Quantum Processor. <i>Physical Review Letters</i> , 2018, 120, 050507.	2.9	189
69	Entropic cohering power in quantum operations. <i>Quantum Information Processing</i> , 2018, 17, 1.	1.0	6
70	Environment-assisted non-Markovian speedup dynamics control. <i>Annals of Physics</i> , 2018, 388, 1-11.	1.0	9
71	Monogamy of Einstein-Podolsky-Rosen Steering in the Background of an Asymptotically Flat Black Hole. <i>Annalen Der Physik</i> , 2018, 530, 1700261.	0.9	10
72	Approximate quantum state reconstruction without a quantum channel. <i>Physical Review A</i> , 2018, 98, .	1.0	5

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73	Coherence as resource in scattering quantum walk search on complete graph. Scientific Reports, 2018, 8, 11081.	1.6	4
74	Two-copy Quantum Teleportation. Scientific Reports, 2018, 8, 13960.	1.6	8
75	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
76	Tunable single-photon diode by chiral quantum physics. Physical Review A, 2018, 98, .	1.0	41
77	Dynamical quantum phase transition for mixed states in open systems. Physical Review B, 2018, 98, .	1.1	21
78	Hierarchy of the nonlocal advantage of quantum coherence and Bell nonlocality. Physical Review A, 2018, 98, .	1.0	49
79	Quantum estimation in an expanding spacetime. Annals of Physics, 2018, 397, 336-350.	1.0	11
80	Fine-grained uncertainty relations under relativistic motion. Europhysics Letters, 2018, 122, 60001.	0.7	8
81	Unsupervised Generative Modeling Using Matrix Product States. Physical Review X, 2018, 8, .	2.8	109
82	Hierarchical-environment-assisted non-Markovian speedup dynamics control. Physical Review A, 2018, 98, .	1.0	26
83	Quantum coherence and geometric quantum discord. Physics Reports, 2018, 762-764, 1-100.	10.3	201
84	Nonlocal advantage of quantum coherence in high-dimensional states. Physical Review A, 2018, 98, .	1.0	44
85	Characterization of Topological States via Dual Multipartite Entanglement. Physical Review Letters, 2018, 120, 250501.	2.9	47
86	Classical-driving-assisted entanglement dynamics control. Annals of Physics, 2017, 379, 187-197.	1.0	6
87	Coherence depletion in the Grover quantum search algorithm. Physical Review A, 2017, 95, .	1.0	124
88	Second law of thermodynamics with quantum memory. Physical Review A, 2017, 96, .	1.0	5
89	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
90	Experimental investigation of quantum entropic uncertainty relations for multiple measurements in pure diamond. Scientific Reports, 2017, 7, 2563.	1.6	14

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91	Coherence transformations in single qubit systems. Scientific Reports, 2017, 7, 14806.	1.6	16
92	Maximum coherence in the optimal basis. Physical Review A, 2017, 96, .	1.0	40
93	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
94	Relative quantum coherence, incompatibility, and quantum correlations of states. Physical Review A, 2017, 95, .	1.0	79
95	Einstein-Podolsky-Rosen correlations and Bell correlations in the simplest scenario. Physical Review A, 2017, 95, .	1.0	15
96	Investigating disordered many-body system with entanglement in momentum space. Scientific Reports, 2017, 7, 16668.	1.6	6
97	Control of quantum dynamics: Non-Markovianity and the speedup of the open system evolution. Europhysics Letters, 2016, 116, 30001.	0.7	14
98	Steering Bell-diagonal states. Scientific Reports, 2016, 6, 22025.	1.6	37
99	Evolution equation for quantum coherence. Scientific Reports, 2016, 6, 29260.	1.6	78
100	Extracting quantum coherence via steering. Scientific Reports, 2016, 6, 34380.	1.6	51
101	Phase diagram of quantum critical system via local convertibility of ground state. Scientific Reports, 2016, 6, 29175.	1.6	3
102	Coherence susceptibility as a probe of quantum phase transitions. Physical Review A, 2016, 94, .	1.0	76
103	Thermalization of topological entropy after a quantum quench. Physical Review B, 2016, 94, .	1.1	6
104	Density functional calculations of a staggered FeSe monolayer on aSrTiO3(110) surface. Physical Review B, 2016, 94, .	1.1	4
105	Quantifying coherence in infinite-dimensional systems. Physical Review A, 2016, 93, .	1.0	88
106	Entanglement Rényi entropy. Physical Review A, 2016, 93, .	1.0	28
107	Irreversible degradation of quantum coherence under relativistic motion. Physical Review A, 2016, 93, .	1.0	49
108	Topological characters in FeTe films. Physical Review B, 2016, 93, .	1.0	26

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109	Influence of relativistic effects on satellite-based clock synchronization. <i>Physical Review D</i> , 2016, 93, .	1.6	26
110	Gaussian quantum steering and its asymmetry in curved spacetime. <i>Physical Review D</i> , 2016, 93, .	1.6	39
111	Maximally coherent states and coherence-preserving operations. <i>Physical Review A</i> , 2016, 93, .	1.0	81
112	Correspondence: Reply to "Enhancing a phase measurement by sequentially probing a solid-state system". <i>Nature Communications</i> , 2016, 7, 11521.	5.8	1
113	Speedup of quantum evolution of multiqubit entanglement states. <i>Scientific Reports</i> , 2016, 6, 27349.	1.6	10
114	Quantum coherence of steered states. <i>Scientific Reports</i> , 2016, 6, 19365.	1.6	54
115	Entanglement spectrum of Su-Schrieffer-Heeger-Hubbard model. <i>Physical Review B</i> , 2016, 94, .	1.1	21
116	Quantum Criticality in the Biased Dicke Model. <i>Scientific Reports</i> , 2016, 6, 19751.	1.6	6
117	Revisitation of superconductivity in $K_2Cr_3As_3$ based on the six-band model. <i>Europhysics Letters</i> , 2016, 113, 37003.	0.7	20
118	Operation-triggered quantum clock synchronization. <i>Physical Review A</i> , 2015, 92, .	1.0	5
119	Finite-field calculation of static polarizabilities and hyperpolarizabilities of Na and Sr . <i>Physical Review A</i> , 2015, 92, .	1.0	8
120	Triplet pairing in quasi-one-dimensional $K_2Cr_3As_3$. <i>Physical Review B</i> , 2015, 92, .	1.1	82
121	Genuine multipartite entanglement detection and lower bound of multipartite concurrence. <i>Physical Review A</i> , 2015, 92, .	1.0	24
122	Fermionic non-Abelian fractional Chern insulators from dipolar interactions. <i>Physical Review B</i> , 2015, 91, .	1.1	3
123	Role of initial system-bath correlation on coherence trapping. <i>Scientific Reports</i> , 2015, 5, 13359.	1.6	50
124	Expected number of quantum channels in quantum networks. <i>Scientific Reports</i> , 2015, 5, 12128.	1.6	3
125	Maximal Holevo Quantity Based on Weak Measurements. <i>Scientific Reports</i> , 2015, 5, 10727.	1.6	3
126	All-optical router at single-photon level by interference. <i>Europhysics Letters</i> , 2015, 111, 64005.	0.7	19

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127	Fidelity and trace-norm distances for quantifying coherence. <i>Physical Review A</i> , 2015, 91, .	1.0	230
128	Enhancing entanglement trapping by weak measurement and quantum measurement reversal. <i>Annals of Physics</i> , 2015, 354, 203-212.	1.0	24
129	Effect of local channels on quantum steering ellipsoids. <i>Physical Review A</i> , 2015, 91, .	1.0	17
130	Parameter estimation for an expanding universe. <i>Nuclear Physics B</i> , 2015, 892, 390-399.	0.9	24
131	Multipartite distribution property of one way discord beyond measurement. <i>Annals of Physics</i> , 2015, 354, 157-164.	1.0	1
132	$\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \text{CaFeAs} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$ A staggered intercalation of quantum spin Hall and high-temperature superconductivity. <i>Physical Review B</i> , 2015, 91, .	1.1	43
133	Crystallized and amorphous vortices in rotating atomic-molecular Bose-Einstein condensates. <i>Scientific Reports</i> , 2015, 4, 4224.	1.6	17
134	Quantum metrology via repeated quantum nondemolition measurements in a photon box. <i>Physical Review A</i> , 2015, 91, .	1.0	2
135	Relativistic Quantum Metrology in Open System Dynamics. <i>Scientific Reports</i> , 2015, 5, 7946.	1.6	36
136	Evolution equation for geometric quantum correlation measures. <i>Physical Review A</i> , 2015, 91, .	1.0	46
137	Zeno dynamics in quantum open systems. <i>Scientific Reports</i> , 2015, 5, 11509.	1.6	22
138	Uncertainty relation in Schwarzschild spacetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 743, 198-204.	1.5	27
139	Entropic uncertainty relations for multiple measurements. <i>Physical Review A</i> , 2015, 91, .	1.0	103
140	Classical-driving-assisted quantum speed-up. <i>Physical Review A</i> , 2015, 91, .	1.0	75
141	Quantum coherence and correlations in quantum system. <i>Scientific Reports</i> , 2015, 5, 10922.	1.6	197
142	One-way deficit of two-qubit \otimes states. <i>Quantum Information Processing</i> , 2015, 14, 2487-2497.	1.0	8
143	Demonstration of entanglement-enhanced phase estimation in solid. <i>Nature Communications</i> , 2015, 6, 6726.	5.8	33
144	Measurement-induced nonlocality based on the trace norm. <i>New Journal of Physics</i> , 2015, 17, 033004.	1.2	83

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145	Quantum Correlation Induced by the Average Distance Between the Reduced States. International Journal of Theoretical Physics, 2015, 54, 2022-2030.	0.5	13
146	Magnetism in Quasi-One-Dimensional $A_2Cr_3As_3$ ($A=K,Rb$) Superconductors. Chinese Physics Letters, 2015, 32, 057401.	1.3	55
147	A generalization of Schmidt number for multipartite states. International Journal of Quantum Information, 2015, 13, 1550025.	0.6	3
148	Global quantum discord and quantum phase transition in XY model. Annals of Physics, 2015, 362, 805-813.	1.0	14
149	Quantum error correction assisted by two-way noisy communication. Scientific Reports, 2015, 4, 7203.	1.6	0
150	Role of Weak Measurements on States Ordering and Monogamy of Quantum Correlation. International Journal of Theoretical Physics, 2015, 54, 62-71.	0.5	6
151	Suppressing correlated noise in signals transmitted over the Gaussian memory channels using a 2N-port splitter and phase flips. Physical Review A, 2014, 90, .	1.0	0
152	Quantum metrological bounds for vector parameters. Physical Review A, 2014, 90, .	1.0	36
153	Quantum algorithm for solving some discrete mathematical problems by probing their energy spectra. Physical Review A, 2014, 89, .	1.0	3
154	General fine-grained uncertainty relation and the second law of thermodynamics. Physical Review A, 2014, 90, .	1.0	11
155	Control of single-photon transport in a one-dimensional waveguide by a single photon. Physical Review A, 2014, 90, .	1.0	34
156	Fidelity of measurement-based quantum computation in a bosonic environment. Physical Review A, 2014, 90, .	1.0	2
157	Local Convertibility and the Quantum Simulation of Edge States in Many-Body Systems. Physical Review X, 2014, 4, .	2.8	16
158	Classification of no-signaling correlation and the "guess your neighbor's input" game. Physical Review A, 2014, 90, .	1.0	3
159	Effect of As-chain layers in $CaFeAs_2$. Physical Review B, 2014, 89, .		
160	Anisotropic Rabi model. Physical Review X, 2014, 4, .	2.8	83
161	Single-outcome information gain of qubit measurements on different state ensembles. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 305302.	0.7	4
162	Majorization Relation in Quantum Critical Systems. Chinese Physics Letters, 2014, 31, 076401.	1.3	4

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163	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
164	Quantum entanglement between amide-I and amide-site in Davydov-Scott model. European Physical Journal D, 2014, 68, 1.	0.6	0
165	Adjustable electromagnetically induced transparency and absorption, optical controlled-phase gate in semiconductor quantum wells. European Physical Journal D, 2014, 68, 1.	0.6	2
166	Super-quantum correlation and geometry for Bell-diagonal states with weak measurements. Quantum Information Processing, 2014, 13, 283-297.	1.0	34
167	g-wave pairing in BiS ₂ superconductors. Europhysics Letters, 2014, 108, 27006.	0.7	34
168	Probing Planckian physics in de Sitter space with quantum correlations. Annals of Physics, 2014, 351, 872-899.	1.0	5
169	Quantum discord and measurement-induced disturbance in the background of dilaton black holes. Physical Review D, 2014, 90, .	1.6	45
170	Quantum cloning machines and the applications. Physics Reports, 2014, 544, 241-322.	10.3	88
171	Dense Network of One-Dimensional Midgap Metallic Modes in Monolayer MoSe ₂ Their Spatial Undulations. Physical Review Letters, 2014, 113, 066105.	2.9	172
172	General monogamy property of global quantum discord and the application. Annals of Physics, 2014, 348, 256-269.	1.0	29
173	Quantum-enhanced metrology for multiple phase estimation with noise. Scientific Reports, 2014, 4, 5933.	1.6	61
174	Fitting magnetic field gradient with Heisenberg-scaling accuracy. Scientific Reports, 2014, 4, 7390.	1.6	14
175	Quantum metrology and estimation of Unruh effect. Scientific Reports, 2014, 4, 7195.	1.6	35
176	Single-photon quantum router with multiple output ports. Scientific Reports, 2014, 4, 4820.	1.6	100
177	Quantum speed limit for arbitrary initial states. Scientific Reports, 2014, 4, 4890.	1.6	131
178	Genuine correlations of tripartite system. Quantum Information Processing, 2013, 12, 2371-2383.	1.0	16
179	Quantum correlating power of local quantum channels. Physical Review A, 2013, 87, .	1.0	53
180	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

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181	Local characterization of one-dimensional topologically ordered states. <i>Physical Review B</i> , 2013, 88, .	1.1	25
182	Monogamy deficit for quantum correlations in a multipartite quantum system. <i>Physical Review A</i> , 2013, 87, .	1.0	15
183	Notes on teleportation in an expanding space. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 719, 430-434.	1.5	10
184	Upper bound and shareability of quantum discord based on entropic uncertainty relations. <i>Physical Review A</i> , 2013, 88, .	1.0	92
185	Competition between quantum correlations in the quantum-memory-assisted entropic uncertainty relation. <i>Physical Review A</i> , 2013, 87, .	1.0	108
186	Dual roles of quantum discord in a nondemolition probing task. <i>Physical Review A</i> , 2013, 87, .	1.0	8
187	Interaction- and filling-induced quantum anomalous Hall effect in ultracold neutral Bose-Fermi mixtures on a hexagonal lattice. <i>Physical Review A</i> , 2013, 87, .	1.0	4
188	Entangling power in deterministic quantum computation with one qubit. <i>Physical Review A</i> , 2013, 87, .	1.0	6
189	Topological Quantum Phase Transition in Synthetic Non-Abelian Gauge Potential: Gauge Invariance and Experimental Detections. <i>Scientific Reports</i> , 2013, 3, 2119.	1.6	23
190	Constructing positive maps from block matrices. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 265303.	0.7	0
191	SUDDEN CHANGE OF QUANTUM DISCORD UNDER SINGLE QUBIT NOISE. <i>International Journal of Quantum Information</i> , 2013, 11, 1350048.	0.6	11
192	The Euler number of Bloch states manifold and the quantum phases in gapped fermionic systems. <i>Europhysics Letters</i> , 2013, 103, 10008.	0.7	31
193	Strain tuning of optical emission energy and polarization in monolayer and bilayer MoS ₂ . <i>Physical Review B</i> , 2013, 88, .	1.1	365
194	Finite-field calculation of the polarizabilities and hyperpolarizabilities of Al ⁺ . <i>Physical Review A</i> , 2013, 88, .	1.0	9
195	A double-threshold technique for fast time-correspondence imaging. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	35
196	Tunable Band Topology Reflected by Fractional Quantum Hall States in Two-Dimensional Lattices. <i>Physical Review Letters</i> , 2013, 111, 186804.	2.9	30
197	Time-correspondence differential ghost imaging. <i>Physical Review A</i> , 2013, 87, .	1.0	79
198	Quantum network teleportation for quantum information distribution and concentration. <i>Physical Review A</i> , 2013, 87, .	1.0	15

#	ARTICLE	IF	CITATIONS
199	Superadditivity of quantum-correlating power. <i>Physical Review A</i> , 2013, 88, .	1.0	4
200	Quantum error-correcting codes over mixed alphabets. <i>Physical Review A</i> , 2013, 88, .	1.0	10
201	Criterion for remote clock synchronization with Heisenberg-scaling accuracy. <i>Physical Review A</i> , 2013, 88, .	1.0	16
202	Unbounded quantum Fisher information in two-path interferometry with finite photon number. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 035302.	0.7	24
203	Room-Temperature Quantum Cloning Machine with Full Coherent Phase Control in Nanodiamond. <i>Scientific Reports</i> , 2013, 3, 1498.	1.6	12
204	Tunable single-photon frequency conversion in a Sagnac interferometer. <i>Scientific Reports</i> , 2013, 3, 3555.	1.6	45
205	Non-monogamy of quantum discord and upper bounds for quantum correlation. <i>Quantum Information and Computation</i> , 2013, 13, 469-478.	0.1	14
206	Quantum discord: $\tilde{\text{discord}}^{\text{TM}}$ between the whole and its constituent. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 425304.	0.7	0
207	Exact solutions of a multi-component anyon model with $SU(N)$ invariance. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 045207.	0.7	3
208	Quantum information approach to a Bose-Einstein condensate in a tilted double-well system. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 055301.	0.6	2
209	Minimal input sets determining phase-covariant and universal quantum cloning. <i>Physical Review A</i> , 2012, 86, .	1.0	7
210	Circular-hyperbolic skyrmion in rotating pseudo-spin-1/2 Bose-Einstein condensates with spin-orbit coupling. <i>Physical Review A</i> , 2012, 86, .	1.0	50
211	Entanglement-assisted local operations and classical communications conversion in quantum critical systems. <i>Physical Review A</i> , 2012, 85, .	1.0	10
212	General quantum key distribution in higher dimension. <i>Physical Review A</i> , 2012, 85, .	1.0	13
213	Magnetic ordering and multiferroicity in Mn_2Si . <i>Physical Review B</i> , 2012, 86, .	1.1	24
214	Edge-mode combinations in the entanglement spectra of non-Abelian fractional quantum Hall states on the torus. <i>Physical Review B</i> , 2012, 85, .	1.1	25
215	Testing Quantum Entanglement with Local Measurement. <i>Chinese Physics Letters</i> , 2012, 29, 070306.	1.3	2
216	Non-compression of quantum phase information. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 025304.	0.7	1

#	ARTICLE	IF	CITATIONS
217	Fractional Chern Insulators in Topological Flat Bands with Higher Chern Number. <i>Physical Review Letters</i> , 2012, 109, 186805.	2.9	139
218	Quantum phases with differing computational power. <i>Nature Communications</i> , 2012, 3, 812.	5.8	62
219	Detecting genuine multipartite correlations in terms of the rank of coefficient matrix. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 505301.	0.7	8
220	Preservation of entanglement in a two-qubit-spin coupled system. <i>Annals of Physics</i> , 2012, 327, 292-296.	1.0	13
221	Necessary and sufficient conditions for local creation of quantum correlation. <i>Physical Review A</i> , 2012, 85, .	1.0	85
222	Determinant representations for scalar products of the XXZ Gaudin model with general boundary terms. <i>Nuclear Physics B</i> , 2012, 862, 835-849.	0.9	14
223	Quantum-memory-assisted entropic uncertainty principle, teleportation, and entanglement witness in structured reservoirs. <i>Physical Review A</i> , 2012, 86, .	1.0	131
224	Assisted state discrimination without entanglement. <i>Physical Review A</i> , 2012, 85, .	1.0	58
225	Quantum dissonance is rejected in an overlap measurement scheme. <i>Physical Review A</i> , 2012, 86, .	1.0	8
226	Dynamics of entropic measurement-induced nonlocality in structured reservoirs. <i>Annals of Physics</i> , 2012, 327, 2343-2353.	1.0	65
227	Quantum correlation dynamics of two qubits in noisy environments: The factorization law and beyond. <i>Annals of Physics</i> , 2012, 327, 2074-2084.	1.0	23
228	Dynamics of geometric discord and measurement-induced nonlocality at finite temperature. <i>European Physical Journal D</i> , 2012, 66, 1.	0.6	20
229	One-way unlocalizable quantum discord. <i>Physical Review A</i> , 2012, 85, .	1.0	14
230	Robustness of quantum correlations against decoherence. <i>Annals of Physics</i> , 2012, 327, 851-860.	1.0	74
231	Quantum correlations in spin models. <i>Annals of Physics</i> , 2011, 326, 2694-2701.	1.0	41
232	Correlation properties of anisotropic XY model with a sudden quench. <i>European Physical Journal B</i> , 2011, 79, 503-507.	0.6	2
233	Entanglement evolution in multipartite cavity-reservoir systems under local unitary operations. <i>European Physical Journal D</i> , 2011, 64, 557-563.	0.6	9
234	Optimal asymmetric $1 \rightarrow 4$ quantum cloning in arbitrary dimension. <i>European Physical Journal D</i> , 2011, 65, 621-625.	0.6	2

#	ARTICLE	IF	CITATIONS
235	Exciton condensation in cavity quantum electrodynamics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 055302.	0.6	1
236	Unified universal quantum cloning machine and fidelities. <i>Physical Review A</i> , 2011, 84, .	1.0	18
237	Diffraction of Bose-Einstein condensates in quantized light fields. <i>Physical Review A</i> , 2011, 84, .	1.0	1
238	Entanglement spectrum: Identification of the transition from vortex-liquid to vortex-lattice state in a weakly interacting rotating Bose-Einstein condensate. <i>Physical Review A</i> , 2011, 83, .	1.0	13
239	Solid-state optimal phase-covariant quantum cloning machine. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	21
240	Quantum-information approach to the quantum phase transition in the Kitaev honeycomb model. <i>Physical Review A</i> , 2010, 82, .	1.0	22
241	Particle entanglement in rotating gases. <i>Physical Review A</i> , 2010, 81, .	1.0	14
242	Abelian and non-Abelian quantum geometric tensor. <i>Physical Review B</i> , 2010, 81, .	1.1	65
243	A sufficient and necessary condition for $2n-1$ orthogonal states to be locally distinguishable in a $C_2 \otimes C_n$ system. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 325303.	0.7	8
244	Correlations in the Grover search. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 045305.	0.7	102
245	Dynamics of the bounds of squared concurrence. <i>Physical Review A</i> , 2009, 79, .	1.0	12
246	Decay of multiqubit entanglement. <i>Physical Review A</i> , 2009, 79, .	1.0	29
247	Stabilizer dimension of graph states. <i>Physical Review A</i> , 2009, 79, .	1.0	6
248	Quantum-information approach to rotating Bose-Einstein condensates. <i>Physical Review A</i> , 2009, 80, .	1.0	12
249	Proper monogamy inequality for arbitrary pure quantum states. <i>Physical Review A</i> , 2008, 78, .	1.0	71
250	General sequential quantum cloning. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 155303.	0.7	3
251	Decoherence of a central quantum system coupled to an XY spin chain. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 2455-2461.	0.7	16
252	Bounds on negativity of superpositions. <i>Physical Review A</i> , 2007, 76, .	1.0	34

#	ARTICLE	IF	CITATIONS
253	Optimal broadcasting of mixed states. Physical Review A, 2007, 76, .	1.0	9
254	Boundary effects on entropy and two-site entanglement of the spin-1 valence-bond solid. Physical Review B, 2007, 76, .	1.1	14
255	Distinguishing bipartite states by local operations and classical communication. Physical Review A, 2007, 75, .	1.0	43
256	Monogamy inequality in terms of negativity for three-qubit states. Physical Review A, 2007, 75, .	1.0	215
257	Threshold error penalty for fault-tolerant quantum computation with nearest neighbor communication. IEEE Nanotechnology Magazine, 2006, 5, 42-49.	1.1	34
258	Quantum Cloning Machines. , 2006, , 63-109.		4
259	Quantum Cloning Machines. , 2006, , 63-110.		0
260	Entanglement and off-diagonal long-range order of an \hat{I} -pairing state. Journal of Physics A, 2005, 38, 5285-5292.	1.6	20
261	Optimal two-qubit quantum circuits using exchange interactions. Physical Review A, 2005, 72, .	1.0	34
262	Entanglement in a Valence-Bond Solid State. Physical Review Letters, 2004, 93, 227203.	2.9	122
263	Distinguishability and Indistinguishability by Local Operations and Classical Communication. Physical Review Letters, 2004, 92, 177905.	2.9	173
264	Remarks on entanglement assisted classical capacity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 313, 182-187.	0.9	1
265	Quantify entanglement by concurrence hierarchy. Journal of Physics A, 2003, 36, 4151-4158.	1.6	46
266	Entanglement concentration by ordinary linear optical devices without postselection. Physical Review A, 2003, 68, .	1.0	19
267	The dynamical Yang-Baxter relation and the minimal representation of the elliptic quantum group. Journal of Mathematical Physics, 2003, 44, 1276-1296.	0.5	0
268	Quantum cloning of mixed states in symmetric subspaces. Physical Review A, 2003, 68, .	1.0	18
269	Phase-covariant quantum cloning of qudits. Physical Review A, 2003, 67, .	1.0	109
270	A note on quantum entropy inequalities and channel capacities. Journal of Physics A, 2003, 36, 12081-12088.	1.6	5

#	ARTICLE	IF	CITATIONS
271	Cloning of symmetric d-level photonic states in physical systems. <i>Physical Review A</i> , 2002, 66, .	1.0	12
272	Phase-covariant quantum cloning. <i>Journal of Physics A</i> , 2002, 35, 7415-7423.	1.6	11
273	Integrable boundary impurities in the $\hat{su}(2)$ model with different gradings. <i>Nuclear Physics B</i> , 2001, 599, 561-581.	0.9	9
274	Quantum cloning machines of ad-level system. <i>Physical Review A</i> , 2001, 64, .	1.0	42
275	Quantum cloning machines for equatorial qubits. <i>Physical Review A</i> , 2001, 65, .	1.0	110
276	Bethe Ansatz for the One-Dimensional Small-Polaron Model with Open Boundary Conditions. <i>Journal of the Physical Society of Japan</i> , 2000, 69, 251-258.	0.7	2
277	Bethe Ansatz for the $SU(4)$ Extension of the Hubbard Model. <i>Journal of the Physical Society of Japan</i> , 2000, 69, 3797-3804.	0.7	1
278	Boundary impurities in the generalized supersymmetric t - J model. <i>Journal of Physics A</i> , 2000, 33, 6187-6202.	1.6	9
279	Exact diagonalization of the generalized supersymmetric t - J model with boundaries. <i>Physical Review B</i> , 2000, 61, 3450-3469.	1.1	15
280	The general solutions to the reflection equation of the Izergin-Korepin model. <i>Journal of Physics A</i> , 1999, 32, 6021-6032.	1.6	7
281	Exact solution for small-polaron model with boundaries. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 251, 79-85.	0.9	5
282	Algebraic Bethe ansatz for the supersymmetric t - J model with reflecting boundary conditions. <i>Nuclear Physics B</i> , 1999, 541, 483-505.	0.9	5
283	The Fermion-ladder models: extensions of the Hubbard model with eta-pairing. <i>Journal of Physics A</i> , 1999, 32, L509-L513.	1.6	9
284	Fermionic R-Operator Approach for the Small-Polaron Model with Open Boundary Condition. <i>Journal of the Physical Society of Japan</i> , 1999, 68, 3826-3830.	0.7	5
285	A new solution to the reflection equation for the Z_n symmetric Belavin model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 250, 79-87.	0.9	10
286	A one-dimensional many-body integrable model from Z_n Belavin model with open boundary conditions. <i>Journal of Mathematical Physics</i> , 1998, 39, 4746-4758.	0.5	1
287	The elliptic quantum algebra $A_{q,p}(\mathfrak{sl}_n^{\wedge} \mathbb{S})$ and its bosonization at level one. <i>Journal of Mathematical Physics</i> , 1998, 39, 4356-4368.	0.5	3
288	Bosonization of vertex operators for the $-$ symmetric Belavin model. <i>Journal of Physics A</i> , 1997, 30, 5687-5696.	1.6	3

#	ARTICLE	IF	CITATIONS
289	Drinfeld constructions of the quantum affine superalgebra $Uq(\mathfrak{gl}(m/n \ell))$. Journal of Mathematical Physics, 1997, 38, 411-433.	0.5	3
290	Integrable Boundary Conditions Associated with the $Z_n \tilde{A} - Z_n$ Belavin Model and Solutions of Reflection Equation. International Journal of Modern Physics A, 1997, 12, 2809-2823.	0.5	5
291	Integrable $A^{(1)}_{-n-1}$ IRF Model with Reflecting Boundary Conditions. Modern Physics Letters A, 1997, 12, 1929-1942.	0.5	10
292	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
293	Bethe ansatz for the Izergin-Korepin model. Nuclear Physics B, 1997, 488, 409-425.	0.9	25
294	Representation of the boundary elliptic quantum group $BE_{\ell, \ell}(\mathfrak{sl}_2)$ and the Bethe ansatz. Nuclear Physics B, 1997, 496, 551-570.	0.9	8
295	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
296	Exact diagonalization of the quantum supersymmetric $SU_q(n m)$ model. Nuclear Physics B, 1996, 462, 167-191.	0.9	35
297	Algebraic Bethe ansatz for the eight-vertex model with general open boundary conditions. Nuclear Physics B, 1996, 478, 723-757.	0.9	47
298	The Unitarity of the $W(3)$ Algebra from $SU(3)$ Parafermion. Communications in Theoretical Physics, 1996, 26, 197-202.	1.1	0
299	Fusion procedure for the Belavin model with open boundary conditions. Journal of Physics A, 1996, 29, 5735-5743.	1.6	0
300	Integrable open-boundary conditions for the $Z_n \tilde{A} - Z_n$ Belavin model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 200, 109-114.	0.9	12
301	Solution of Reflection Equation. Communications in Theoretical Physics, 1995, 23, 163-166.	1.1	25
302	Zamolodchikov-Faddeev algebra related to Z_n symmetric elliptic R-matrix. Journal of Physics A, 1995, 28, 3157-3175.	1.6	2
303	General solution of reflection equation for eight-vertex SOS model. Journal of Physics A, 1995, 28, 4743-4749.	1.6	22
304	W_3 -algebra constructed from the $SU(3)$ parafermion. Nuclear Physics B, 1994, 422, 307-328.	0.9	5
305	W-algebra in the $SU(3)$ parafermion model. Physical Review Letters, 1993, 70, 2228-2231.	2.9	7
306	Quantum Simulation of Lattice Gauge Theories on Superconducting Circuits: Quantum Phase Transition and Quench Dynamics. Chinese Physics B, 0, , .	0.7	5

#	ARTICLE	IF	CITATIONS
307	Beating standard quantum limit via two-axis magnetic susceptibility measurement. Chinese Physics B, 0, , ·	0.7	1