

Heng Fan

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4946637/heng-fan-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

297
papers

7,050
citations

46
h-index

70
g-index

308
ext. papers

8,437
ext. citations

3.6
avg, IF

6.6
L-index

#	Paper	IF	Citations
297	Strain tuning of optical emission energy and polarization in monolayer and bilayer MoS ₂ . <i>Physical Review B</i> , 2013 , 88,	3.3	285
296	Fidelity and trace-norm distances for quantifying coherence. <i>Physical Review A</i> , 2015 , 91,	2.6	192
295	Monogamy inequality in terms of negativity for three-qubit states. <i>Physical Review A</i> , 2007 , 75,	2.6	175
294	Quantum coherence and correlations in quantum system. <i>Scientific Reports</i> , 2015 , 5, 10922	4.9	156
293	Dense network of one-dimensional midgap metallic modes in monolayer MoSe ₂ and their spatial undulations. <i>Physical Review Letters</i> , 2014 , 113, 066105	7.4	135
292	Quantum coherence and geometric quantum discord. <i>Physics Reports</i> , 2018 , 762-764, 1-100	27.7	130
291	Distinguishability and indistinguishability by local operations and classical communication. <i>Physical Review Letters</i> , 2004 , 92, 177905	7.4	130
290	Generation of multicomponent atomic Schrödinger cat states of up to 20 qubits. <i>Science</i> , 2019 , 365, 574-577,	33.3	115
289	Entanglement in a valence-bond solid state. <i>Physical Review Letters</i> , 2004 , 93, 227203	7.4	109
288	Fractional Chern insulators in topological flat bands with higher Chern number. <i>Physical Review Letters</i> , 2012 , 109, 186805	7.4	108
287	Quantum-memory-assisted entropic uncertainty principle, teleportation, and entanglement witness in structured reservoirs. <i>Physical Review A</i> , 2012 , 86,	2.6	107
286	Emulating Many-Body Localization with a Superconducting Quantum Processor. <i>Physical Review Letters</i> , 2018 , 120, 050507	7.4	106
285	Phase-covariant quantum cloning of qudits. <i>Physical Review A</i> , 2003 , 67,	2.6	104
284	Quantum speed limit for arbitrary initial states. <i>Scientific Reports</i> , 2014 , 4, 4890	4.9	103
283	Quantum cloning machines for equatorial qubits. <i>Physical Review A</i> , 2001 , 65,	2.6	100
282	Correlations in the Grover search. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010 , 43, 045305	2	96
281	Competition between quantum correlations in the quantum-memory-assisted entropic uncertainty relation. <i>Physical Review A</i> , 2013 , 87,	2.6	92

280	Strongly correlated quantum walks with a 12-qubit superconducting processor. <i>Science</i> , 2019 , 364, 753-756	3.3	89
279	Topological characters in Fe(Te $_{1-x}$ Se $_x$) thin films. <i>Physical Review B</i> , 2016 , 93,	3.3	86
278	Coherence depletion in the Grover quantum search algorithm. <i>Physical Review A</i> , 2017 , 95,	2.6	83
277	Entropic uncertainty relations for multiple measurements. <i>Physical Review A</i> , 2015 , 91,	2.6	83
276	Upper bound and shareability of quantum discord based on entropic uncertainty relations. <i>Physical Review A</i> , 2013 , 88,	2.6	80
275	Necessary and sufficient conditions for local creation of quantum correlation. <i>Physical Review A</i> , 2012 , 85,	2.6	75
274	Quantum cloning machines and the applications. <i>Physics Reports</i> , 2014 , 544, 241-322	27.7	68
273	Single-photon quantum router with multiple output ports. <i>Scientific Reports</i> , 2014 , 4, 4820	4.9	67
272	Robustness of quantum correlations against decoherence. <i>Annals of Physics</i> , 2012 , 327, 851-860	2.5	67
271	Evolution equation for quantum coherence. <i>Scientific Reports</i> , 2016 , 6, 29260	4.9	67
270	Relative quantum coherence, incompatibility, and quantum correlations of states. <i>Physical Review A</i> , 2017 , 95,	2.6	65
269	Measurement-induced nonlocality based on the trace norm. <i>New Journal of Physics</i> , 2015 , 17, 033004	2.9	64
268	Quantifying coherence in infinite-dimensional systems. <i>Physical Review A</i> , 2016 , 93,	2.6	64
267	Maximally coherent states and coherence-preserving operations. <i>Physical Review A</i> , 2016 , 93,	2.6	64
266	Triplet pz-wave pairing in quasi-one-dimensional A $_2$ Cr $_3$ As $_3$ superconductors (A=K,Rb,Cs). <i>Physical Review B</i> , 2015 , 92,	3.3	64
265	Proper monogamy inequality for arbitrary pure quantum states. <i>Physical Review A</i> , 2008 , 78,	2.6	64
264	Anisotropic Rabi model. <i>Physical Review X</i> , 2014 , 4,	9.1	63
263	Classical-driving-assisted quantum speed-up. <i>Physical Review A</i> , 2015 , 91,	2.6	61

262	Quantum phases with differing computational power. <i>Nature Communications</i> , 2012 , 3, 812	17.4	59
261	Time-correspondence differential ghost imaging. <i>Physical Review A</i> , 2013 , 87,	2.6	59
260	Unsupervised Generative Modeling Using Matrix Product States. <i>Physical Review X</i> , 2018 , 8,	9.1	57
259	Dynamics of entropic measurement-induced nonlocality in structured reservoirs. <i>Annals of Physics</i> , 2012 , 327, 2343-2353	2.5	57
258	Coherence susceptibility as a probe of quantum phase transitions. <i>Physical Review A</i> , 2016 , 94,	2.6	56
257	Assisted state discrimination without entanglement. <i>Physical Review A</i> , 2012 , 85,	2.6	50
256	Observation of a Dynamical Quantum Phase Transition by a Superconducting Qubit Simulation. <i>Physical Review Applied</i> , 2019 , 11,	4.3	48
255	Propagation and Localization of Collective Excitations on a 24-Qubit Superconducting Processor. <i>Physical Review Letters</i> , 2019 , 123, 050502	7.4	48
254	Abelian and non-Abelian quantum geometric tensor. <i>Physical Review B</i> , 2010 , 81,	3.3	48
253	Quantum correlating power of local quantum channels. <i>Physical Review A</i> , 2013 , 87,	2.6	47
252	Quantum-enhanced metrology for multiple phase estimation with noise. <i>Scientific Reports</i> , 2014 , 4, 5933	4.9	47
251	Magnetism in Quasi-One-Dimensional $A_2Cr_3As_3$ ($A=K,Rb$) Superconductors. <i>Chinese Physics Letters</i> , 2015 , 32, 057401	1.8	45
250	Quantum coherence of steered states. <i>Scientific Reports</i> , 2016 , 6, 19365	4.9	44
249	Extracting quantum coherence via steering. <i>Scientific Reports</i> , 2016 , 6, 34380	4.9	43
248	Algebraic Bethe ansatz for the eight-vertex model with general open boundary conditions. <i>Nuclear Physics B</i> , 1996 , 478, 723-757	2.8	41
247	Quantum cloning machines of a d-level system. <i>Physical Review A</i> , 2001 , 64,	2.6	40
246	Evolution equation for geometric quantum correlation measures. <i>Physical Review A</i> , 2015 , 91,	2.6	38
245	Effect of As-chain layers in $CaFeAs_2$. <i>Physical Review B</i> , 2014 , 89,	3.3	38

244	Quantum correlations in spin models. <i>Annals of Physics</i> , 2011 , 326, 2694-2701	2.5	38
243	Entropic uncertainty relations under the relativistic motion. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 726, 527-532	4.2	36
242	Role of initial system-bath correlation on coherence trapping. <i>Scientific Reports</i> , 2015 , 5, 13359	4.9	36
241	Quantify entanglement by concurrence hierarchy. <i>Journal of Physics A</i> , 2003 , 36, 4151-4158		36
240	CaFeAs ₂ : A staggered intercalation of quantum spin Hall and high-temperature superconductivity. <i>Physical Review B</i> , 2015 , 91,	3.3	35
239	Quantum coherence of multiqubit states in correlated noisy channels. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	35
238	Maximum coherence in the optimal basis. <i>Physical Review A</i> , 2017 , 96,	2.6	35
237	Circular-hyperbolic skyrmion in rotating pseudo-spin-1/2 Bose-Einstein condensates with spin-orbit coupling. <i>Physical Review A</i> , 2012 , 86,	2.6	35
236	Nonlocal advantage of quantum coherence in high-dimensional states. <i>Physical Review A</i> , 2018 , 98,	2.6	34
235	Characterization of Topological States via Dual Multipartite Entanglement. <i>Physical Review Letters</i> , 2018 , 120, 250501	7.4	34
234	Quantum discord and measurement-induced disturbance in the background of dilaton black holes. <i>Physical Review D</i> , 2014 , 90,	4.9	34
233	Tunable single-photon frequency conversion in a Sagnac interferometer. <i>Scientific Reports</i> , 2013 , 3, 3555	4.9	34
232	Exact diagonalization of the quantum supersymmetric SU _q (n m) model. <i>Nuclear Physics B</i> , 1996 , 462, 167-191	2.8	34
231	Hierarchy of the nonlocal advantage of quantum coherence and Bell nonlocality. <i>Physical Review A</i> , 2018 , 98,	2.6	34
230	Irreversible degradation of quantum coherence under relativistic motion. <i>Physical Review A</i> , 2016 , 93,	2.6	32
229	Topological band theory for non-Hermitian systems from the Dirac equation. <i>Physical Review B</i> , 2019 , 100,	3.3	32
228	Quantum metrology and estimation of Unruh effect. <i>Scientific Reports</i> , 2014 , 4, 7195	4.9	31
227	Distinguishing bipartite states by local operations and classical communication. <i>Physical Review A</i> , 2007 , 75,	2.6	31

226	Super-quantum correlation and geometry for Bell-diagonal states with weak measurements. <i>Quantum Information Processing</i> , 2014 , 13, 283-297	1.6	30
225	g-wave pairing in BiS 2 superconductors. <i>Europhysics Letters</i> , 2014 , 108, 27006	1.6	30
224	Single-Shot Readout of a Nuclear Spin Weakly Coupled to a Nitrogen-Vacancy Center at Room Temperature. <i>Physical Review Letters</i> , 2017 , 118, 150504	7.4	30
223	Bounds on negativity of superpositions. <i>Physical Review A</i> , 2007 , 76,	2.6	30
222	Probing dynamical phase transitions with a superconducting quantum simulator. <i>Science Advances</i> , 2020 , 6, eaba4935	14.3	28
221	Gaussian quantum steering and its asymmetry in curved spacetime. <i>Physical Review D</i> , 2016 , 93,	4.9	27
220	Control of single-photon transport in a one-dimensional waveguide by a single photon. <i>Physical Review A</i> , 2014 , 90,	2.6	27
219	A double-threshold technique for fast time-correspondence imaging. <i>Applied Physics Letters</i> , 2013 , 103, 211119	3.4	27
218	Threshold error penalty for fault-tolerant quantum computation with nearest neighbor communication. <i>IEEE Nanotechnology Magazine</i> , 2006 , 5, 42-49	2.6	27
217	Relativistic quantum metrology in open system dynamics. <i>Scientific Reports</i> , 2015 , 5, 7946	4.9	26
216	Optimal two-qubit quantum circuits using exchange interactions. <i>Physical Review A</i> , 2005 , 72,	2.6	26
215	Demonstration of entanglement-enhanced phase estimation in solid. <i>Nature Communications</i> , 2015 , 6, 6726	17.4	25
214	Tunable band topology reflected by fractional quantum Hall States in two-dimensional lattices. <i>Physical Review Letters</i> , 2013 , 111, 186804	7.4	25
213	Steering Bell-diagonal states. <i>Scientific Reports</i> , 2016 , 6, 22025	4.9	25
212	General monogamy property of global quantum discord and the application. <i>Annals of Physics</i> , 2014 , 348, 256-269	2.5	24
211	Local characterization of one-dimensional topologically ordered states. <i>Physical Review B</i> , 2013 , 88,	3.3	24
210	Quantum metrological bounds for vector parameters. <i>Physical Review A</i> , 2014 , 90,	2.6	24
209	Bethe ansatz for the Izergin-Korepin model. <i>Nuclear Physics B</i> , 1997 , 488, 409-425	2.8	24

208	Solution of Reflection Equation. <i>Communications in Theoretical Physics</i> , 1995 , 23, 163-166	2.4	24
207	Decay of multiqubit entanglement. <i>Physical Review A</i> , 2009 , 79,	2.6	23
206	Tunable single-photon diode by chiral quantum physics. <i>Physical Review A</i> , 2018 , 98,	2.6	23
205	Uncertainty relation in Schwarzschild spacetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 743, 198-204	4.2	22
204	Steered quantum coherence as a signature of quantum phase transitions in spin chains. <i>Physical Review A</i> , 2020 , 101,	2.6	22
203	Influence of relativistic effects on satellite-based clock synchronization. <i>Physical Review D</i> , 2016 , 93,	4.9	22
202	Enhancing entanglement trapping by weak measurement and quantum measurement reversal. <i>Annals of Physics</i> , 2015 , 354, 203-212	2.5	22
201	Nonlocal advantage of quantum coherence in a dephasing channel with memory*. <i>Chinese Physics B</i> , 2021 , 30, 030308	1.2	22
200	Zeno dynamics in quantum open systems. <i>Scientific Reports</i> , 2015 , 5, 11509	4.9	21
199	Genuine multipartite entanglement detection and lower bound of multipartite concurrence. <i>Physical Review A</i> , 2015 , 92,	2.6	21
198	Solid-state optimal phase-covariant quantum cloning machine. <i>Applied Physics Letters</i> , 2011 , 99, 051113	3.4	21
197	Parameter estimation for an expanding universe. <i>Nuclear Physics B</i> , 2015 , 892, 390-399	2.8	20
196	Quantum correlation dynamics of two qubits in noisy environments: The factorization law and beyond. <i>Annals of Physics</i> , 2012 , 327, 2074-2084	2.5	20
195	The Euler number of Bloch states manifold and the quantum phases in gapped fermionic systems. <i>Europhysics Letters</i> , 2013 , 103, 10008	1.6	20
194	Unbounded quantum Fisher information in two-path interferometry with finite photon number. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013 , 46, 035302	2	20
193	Edge-mode combinations in the entanglement spectra of non-Abelian fractional quantum Hall states on the torus. <i>Physical Review B</i> , 2012 , 85,	3.3	20
192	Observation of energy-resolved many-body localization. <i>Nature Physics</i> , 2021 , 17, 234-239	16.2	20
191	Dynamics of geometric discord and measurement-induced nonlocality at finite temperature. <i>European Physical Journal D</i> , 2012 , 66, 1	1.3	19

190	Magnetic ordering and multiferroicity in MnI ₂ . <i>Physical Review B</i> , 2012 , 86,	3.3	19
189	Quantum-information approach to the quantum phase transition in the Kitaev honeycomb model. <i>Physical Review A</i> , 2010 , 82,	2.6	19
188	Entanglement and off-diagonal long-range order of an E pairing state. <i>Journal of Physics A</i> , 2005 , 38, 5285-5292		19
187	General solution of reflection equation for eight-vertex SOS model. <i>Journal of Physics A</i> , 1995 , 28, 4743-4749		19
186	Entanglement Rényi Entropy. <i>Physical Review A</i> , 2016 , 93,	2.6	18
185	Hierarchical-environment-assisted non-Markovian speedup dynamics control. <i>Physical Review A</i> , 2018 , 98,	2.6	18
184	Entanglement concentration by ordinary linear optical devices without postselection. <i>Physical Review A</i> , 2003 , 68,	2.6	18
183	Topological quantum phase transition in synthetic non-Abelian gauge potential: gauge invariance and experimental detections. <i>Scientific Reports</i> , 2013 , 3, 2119	4.9	17
182	Crystallized and amorphous vortices in rotating atomic-molecular Bose-Einstein condensates. <i>Scientific Reports</i> , 2014 , 4, 4224	4.9	16
181	Revisitation of superconductivity in K ₂ Cr ₃ As ₃ based on the six-band model. <i>Europhysics Letters</i> , 2016 , 113, 37003	1.6	16
180	l1-norm coherence of assistance. <i>Physical Review A</i> , 2019 , 100,	2.6	16
179	Local Convertibility and the Quantum Simulation of Edge States in Many-Body Systems. <i>Physical Review X</i> , 2014 , 4,	9.1	16
178	Non-zero total correlation means non-zero quantum correlation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 1249-1253	2.3	16
177	Quantum cloning of mixed states in symmetric subspaces. <i>Physical Review A</i> , 2003 , 68,	2.6	16
176	Antiparity-Time Symmetry in Passive Nanophotonics. <i>ACS Photonics</i> , 2020 , 7, 3035-3041	6.3	16
175	Genuine correlations of tripartite system. <i>Quantum Information Processing</i> , 2013 , 12, 2371-2383	1.6	15
174	Monogamy deficit for quantum correlations in a multipartite quantum system. <i>Physical Review A</i> , 2013 , 87,	2.6	15
173	All-optical router at single-photon level by interference. <i>Europhysics Letters</i> , 2015 , 111, 64005	1.6	15

172	Unified universal quantum cloning machine and fidelities. <i>Physical Review A</i> , 2011 , 84,	2.6	15
171	Exact diagonalization of the generalized supersymmetric tJ model with boundaries. <i>Physical Review B</i> , 2000 , 61, 3450-3469	3.3	15
170	One-way unlocalizable quantum discord. <i>Physical Review A</i> , 2012 , 85,	2.6	14
169	Criterion for remote clock synchronization with Heisenberg-scaling accuracy. <i>Physical Review A</i> , 2013 , 88,	2.6	14
168	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	2	14
167	Experimental investigation of quantum entropic uncertainty relations for multiple measurements in pure diamond. <i>Scientific Reports</i> , 2017 , 7, 2563	4.9	13
166	Fitting magnetic field gradient with Heisenberg-scaling accuracy. <i>Scientific Reports</i> , 2014 , 4, 7390	4.9	13
165	Determinant representations for scalar products of the XXZ Gaudin model with general boundary terms. <i>Nuclear Physics B</i> , 2012 , 862, 835-849	2.8	13
164	Quantum network teleportation for quantum information distribution and concentration. <i>Physical Review A</i> , 2013 , 87,	2.6	13
163	Boundary effects on entropy and two-site entanglement of the spin-1 valence-bond solid. <i>Physical Review B</i> , 2007 , 76,	3.3	13
162	Control of quantum dynamics: Non-Markovianity and the speedup of the open system evolution. <i>Europhysics Letters</i> , 2016 , 116, 30001	1.6	13
161	Dynamical quantum phase transition for mixed states in open systems. <i>Physical Review B</i> , 2018 , 98,	3.3	13
160	Quantum coherence in a quantum heat engine. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020 , 53, 085301	2	12
159	Exact analysis of the spectral properties of the anisotropic two-bosons Rabi model. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017 , 50, 204001	2	12
158	Coherence transformations in single qubit systems. <i>Scientific Reports</i> , 2017 , 7, 14806	4.9	12
157	Effect of local channels on quantum steering ellipsoids. <i>Physical Review A</i> , 2015 , 91,	2.6	12
156	Preservation of entanglement in a two-qubit-spin coupled system. <i>Annals of Physics</i> , 2012 , 327, 292-296	2.5	12
155	Room-temperature quantum cloning machine with full coherent phase control in nanodiamond. <i>Scientific Reports</i> , 2013 , 3, 1498	4.9	12

154	Integrable open-boundary conditions for the Zn \mathbb{Z}_n Belavin model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995 , 200, 109-114	2.3	12
153	Quantum Correlation Induced by the Average Distance Between the Reduced States. <i>International Journal of Theoretical Physics</i> , 2015 , 54, 2022-2030	1.1	11
152	Dynamics of the bounds of squared concurrence. <i>Physical Review A</i> , 2009 , 79,	2.6	11
151	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,	2.6	11
150	General quantum key distribution in higher dimension. <i>Physical Review A</i> , 2012 , 85,	2.6	11
149	Cloning of symmetric d-level photonic states in physical systems. <i>Physical Review A</i> , 2002 , 66,	2.6	11
148	Phase-covariant quantum cloning. <i>Journal of Physics A</i> , 2002 , 35, 7415-7423		11
147	Non-monogamy of quantum discord and upper bounds for quantum correlation. <i>Quantum Information and Computation</i> , 2013 , 13, 469-478	0.9	11
146	Deterministic versus probabilistic quantum information masking. <i>Physical Review A</i> , 2019 , 99,	2.6	10
145	Global quantum discord and quantum phase transition in XY model. <i>Annals of Physics</i> , 2015 , 362, 805-813.	2.5	10
144	Feedback ansatz for adaptive-feedback quantum metrology training with machine learning. <i>Physical Review A</i> , 2020 , 101,	2.6	10
143	Notes on teleportation in an expanding space. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 719, 430-434	4.2	10
142	General fine-grained uncertainty relation and the second law of thermodynamics. <i>Physical Review A</i> , 2014 , 90,	2.6	10
141	Entanglement-assisted local operations and classical communications conversion in quantum critical systems. <i>Physical Review A</i> , 2012 , 85,	2.6	10
140	Quantum-information approach to rotating Bose-Einstein condensates. <i>Physical Review A</i> , 2009 , 80,	2.6	10
139	A new solution to the reflection equation for the Zn symmetric Belavin model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998 , 250, 79-87	2.3	10
138	Observing Information Backflow from Controllable Non-Markovian Multichannels in Diamond. <i>Physical Review Letters</i> , 2020 , 124, 210502	7.4	9
137	SUDDEN CHANGE OF QUANTUM DISCORD UNDER SINGLE QUBIT NOISE. <i>International Journal of Quantum Information</i> , 2013 , 11, 1350048	0.8	9

136	Entanglement evolution in multipartite cavity-reservoir systems under local unitary operations. <i>European Physical Journal D</i> , 2011 , 64, 557-563	1.3	9
135	Integrable $SA^{\{1\}}_{n-1}$ IRF Model with Reflecting Boundary Conditions. <i>Modern Physics Letters A</i> , 1997 , 12, 1929-1942	1.3	9
134	Boundary impurities in the generalized supersymmetric-Jmodel. <i>Journal of Physics A</i> , 2000 , 33, 6187-6202		9
133	One-way deficit of two-qubit (X) states. <i>Quantum Information Processing</i> , 2015 , 14, 2487-2497	1.6	8
132	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	2.5	8
131	Entanglement spectrum of Su-Schrieffer-Heeger-Hubbard model. <i>Physical Review B</i> , 2016 , 94,	3.3	8
130	Dual roles of quantum discord in a nondemolition probing task. <i>Physical Review A</i> , 2013 , 87,	2.6	8
129	Finite-field calculation of static polarizabilities and hyperpolarizabilities of In+ and Sr. <i>Physical Review A</i> , 2015 , 92,	2.6	8
128	Detecting genuine multipartite correlations in terms of the rank of coefficient matrix. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012 , 45, 505301	2	8
127	Quantum dissonance is rejected in an overlap measurement scheme. <i>Physical Review A</i> , 2012 , 86,	2.6	8
126	Representation of the boundary elliptic quantum group $BE_{\tau}(sl_2)$ and the Bethe ansatz. <i>Nuclear Physics B</i> , 1997 , 496, 551-570	2.8	8
125	Optimal broadcasting of mixed states. <i>Physical Review A</i> , 2007 , 76,	2.6	8
124	The Fermion-ladder models: extensions of the Hubbard model with eta-pairing. <i>Journal of Physics A</i> , 1999 , 32, L509-L513		8
123	Environment-assisted non-Markovian speedup dynamics control. <i>Annals of Physics</i> , 2018 , 388, 1-11	2.5	8
122	Monogamy of Einstein-Podolsky-Rosen Steering in the Background of an Asymptotically Flat Black Hole. <i>Annalen Der Physik</i> , 2018 , 530, 1700261	2.6	8
121	Speedup of quantum evolution of multiqubit entanglement states. <i>Scientific Reports</i> , 2016 , 6, 27349	4.9	7
120	Quantum error-correcting codes over mixed alphabets. <i>Physical Review A</i> , 2013 , 88,	2.6	7
119	A sufficient and necessary condition for $2n$ orthogonal states to be locally distinguishable in a C^2 system. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010 , 43, 325303	2	7

118	Particle entanglement in rotating gases. <i>Physical Review A</i> , 2010 , 81,	2.6	7
117	Integrable boundary impurities in the \mathbb{Z}_2 model with different gradings. <i>Nuclear Physics B</i> , 2001 , 599, 561-588		7
116	The general solutions to the reflection equation of the Izergin-Korepin model. <i>Journal of Physics A</i> , 1999 , 32, 6021-6032		7
115	Complementary relation of quantum coherence and quantum correlations in multiple measurements. <i>Scientific Reports</i> , 2019 , 9, 268	4.9	6
114	Out-of-Time-Order Correlators and Quantum Phase Transitions in the Rabi and Dicke Models. <i>Annalen Der Physik</i> , 2020 , 532, 1900270	2.6	6
113	Entropic cohering power in quantum operations. <i>Quantum Information Processing</i> , 2018 , 17, 1	1.6	6
112	Quantum Criticality in the Biased Dicke Model. <i>Scientific Reports</i> , 2016 , 6, 19751	4.9	6
111	Fine-grained uncertainty relations under relativistic motion. <i>Europhysics Letters</i> , 2018 , 122, 60001	1.6	6
110	Einstein-Podolsky-Rosen correlations and Bell correlations in the simplest scenario. <i>Physical Review A</i> , 2017 , 95,	2.6	6
109	Entangling power in deterministic quantum computation with one qubit. <i>Physical Review A</i> , 2013 , 87,	2.6	6
108	Finite-field calculation of the polarizabilities and hyperpolarizabilities of Al^+ . <i>Physical Review A</i> , 2013 , 88,	2.6	6
107	Stabilizer dimension of graph states. <i>Physical Review A</i> , 2009 , 79,	2.6	6
106	W algebra in the $SU(3)$ parafermion model. <i>Physical Review Letters</i> , 1993 , 70, 2228-2231	7.4	6
105	Quantum computation of molecular response properties. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
104	Quantum coherence. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019 , 68, 030304	0.6	6
103	Two-copy Quantum Teleportation. <i>Scientific Reports</i> , 2018 , 8, 13960	4.9	6
102	Quantum estimation in an expanding spacetime. <i>Annals of Physics</i> , 2018 , 397, 336-350	2.5	6
101	Classical-driving-assisted entanglement dynamics control. <i>Annals of Physics</i> , 2017 , 379, 187-197	2.5	5

100	Role of Weak Measurements on States Ordering and Monogamy of Quantum Correlation. <i>International Journal of Theoretical Physics</i> , 2015 , 54, 62-71	1.1	5
99	Impossibility of masking a set of quantum states of nonzero measure. <i>Physical Review A</i> , 2020 , 101,	2.6	5
98	Probing Planckian physics in de Sitter space with quantum correlations. <i>Annals of Physics</i> , 2014 , 351, 872-899	2.5	5
97	Minimal input sets determining phase-covariant and universal quantum cloning. <i>Physical Review A</i> , 2012 , 86,	2.6	5
96	Exact solution for small-polaron model with boundaries. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999 , 251, 79-85	2.3	5
95	W3-algebra constructed from the SU(3) parafermion. <i>Nuclear Physics B</i> , 1994 , 422, 307-328	2.8	5
94	Fermionic-Operator Approach for the Small-Polaron Model with Open Boundary Condition. <i>Journal of the Physical Society of Japan</i> , 1999 , 68, 3826-3830	1.5	5
93	Experimental demonstration of entanglement-enabled universal quantum cloning in a circuit. <i>Npj Quantum Information</i> , 2021 , 7,	8.6	5
92	Bell inequalities violation within non-Bunch-Davies states. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 786, 403-409	4.2	5
91	Second law of thermodynamics with quantum memory. <i>Physical Review A</i> , 2017 , 96,	2.6	4
90	Density functional calculations of a staggered FeSe monolayer on a SrTiO ₃ (110) surface. <i>Physical Review B</i> , 2016 , 94,	3.3	4
89	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,	2.6	4
88	Majorization Relation in Quantum Critical Systems. <i>Chinese Physics Letters</i> , 2014 , 31, 076401	1.8	4
87	Integrable Boundary Conditions Associated with the Zn ₂ Be ₂ Belavin Model and Solutions of Reflection Equation. <i>International Journal of Modern Physics A</i> , 1997 , 12, 2809-2823	1.2	4
86	A note on quantum entropy inequalities and channel capacities. <i>Journal of Physics A</i> , 2003 , 36, 12081-12088		4
85	Algebraic Bethe ansatz for the supersymmetric tJ model with reflecting boundary conditions. <i>Nuclear Physics B</i> , 1999 , 541, 483-505	2.8	4
84	Scalable quantum tomography with fidelity estimation. <i>Physical Review A</i> , 2020 , 101,	2.6	4
83	One-way deficit and quantum phase transitions in XY model and extended Ising model. <i>Quantum Information Processing</i> , 2019 , 18, 1	1.6	4

82	Quantum Cloning Machines 2006 , 63-109		4
81	Quench dynamics of entanglement spectra and topological superconducting phases in a long-range Hamiltonian. <i>Physical Review A</i> , 2020 , 101,	2.6	3
80	Unified and Exact Framework for Variance-Based Uncertainty Relations. <i>Scientific Reports</i> , 2020 , 10, 15049	4.9	3
79	12 superconducting qubits for quantum walks. <i>Frontiers of Physics</i> , 2019 , 14, 1	3.7	3
78	Investigating disordered many-body system with entanglement in momentum space. <i>Scientific Reports</i> , 2017 , 7, 16668	4.9	3
77	Operation-triggered quantum clock synchronization. <i>Physical Review A</i> , 2015 , 92,	2.6	3
76	Expected number of quantum channels in quantum networks. <i>Scientific Reports</i> , 2015 , 5, 12128	4.9	3
75	Quantum algorithm for solving some discrete mathematical problems by probing their energy spectra. <i>Physical Review A</i> , 2014 , 89,	2.6	3
74	Classification of no-signaling correlation and the guess your neighbor's input game. <i>Physical Review A</i> , 2014 , 90,	2.6	3
73	Single-outcome information gain of qubit measurements on different state ensembles. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014 , 47, 305302	2	3
72	Superadditivity of quantum-correlating power. <i>Physical Review A</i> , 2013 , 88,	2.6	3
71	Drinfeld constructions of the quantum affine superalgebra $U_q(\mathfrak{gl}(m/n))$. <i>Journal of Mathematical Physics</i> , 1997 , 38, 411-433	1.2	3
70	General sequential quantum cloning. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 155303		3
69	The elliptic quantum algebra $A_{q,p}(\mathfrak{sl}_n)$ and its bosonization at level one. <i>Journal of Mathematical Physics</i> , 1998 , 39, 4356-4368	1.2	3
68	Characterizing the many-body localization transition by the dynamics of diagonal entropy. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
67	Quantum generative adversarial networks with multiple superconducting qubits. <i>Npj Quantum Information</i> , 2021 , 7,	8.6	3
66	Observation of Bloch oscillations and Wannier-Stark localization on a superconducting quantum processor. <i>Npj Quantum Information</i> , 2021 , 7,	8.6	3
65	Probabilistic nonunitary gate in imaginary time evolution. <i>Quantum Information Processing</i> , 2021 , 20, 1	1.6	3

64	Demonstration of a non-Abelian geometric controlled-NOT gate in a superconducting circuit. <i>Optica</i> , 2021 , 8, 972	8.6	3
63	Observation of Strong and Weak Thermalization in a Superconducting Quantum Processor. <i>Physical Review Letters</i> , 2021 , 127, 020602	7.4	3
62	Phase diagram of quantum critical system via local convertibility of ground state. <i>Scientific Reports</i> , 2016 , 6, 29175	4.9	3
61	Quantum metrology via repeated quantum nondemolition measurements in a photon box. <i>Physical Review A</i> , 2015 , 91,	2.6	2
60	A generalization of Schmidt number for multipartite states. <i>International Journal of Quantum Information</i> , 2015 , 13, 1550025	0.8	2
59	Two-copy quantum teleportation based on GHZ measurement. <i>Quantum Information Processing</i> , 2020 , 19, 1	1.6	2
58	Non-Markovian speedup dynamics control of the damped Jaynes-Cummings model with detuning. <i>Chinese Physics B</i> , 2018 , 27, 010302	1.2	2
57	Adjustable electromagnetically induced transparency and absorption, optical controlled-phase gate in semiconductor quantum wells. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	2
56	Fermionic non-Abelian fractional Chern insulators from dipolar interactions. <i>Physical Review B</i> , 2015 , 91,	3.3	2
55	Maximal Holevo Quantity Based on Weak Measurements. <i>Scientific Reports</i> , 2015 , 5, 10727	4.9	2
54	Correlation properties of anisotropic XY model with a sudden quench. <i>European Physical Journal B</i> , 2011 , 79, 503-507	1.2	2
53	Exact solutions of a multi-component anyon model with SU(N) invariance. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012 , 45, 045207	2	2
52	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	1.3	2
51	Testing Quantum Entanglement with Local Measurement. <i>Chinese Physics Letters</i> , 2012 , 29, 070306	1.8	2
50	Bosonization of vertex operators for the ϕ -symmetric Belavin model. <i>Journal of Physics A</i> , 1997 , 30, 5687-5696		2
49	Boundary K-operator for the elliptic R-operator acting on functional space. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997 , 230, 19-23	2.3	2
48	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	1.5	2
47	Zamolodchikov-Faddeev algebra related to ϕ -symmetric elliptic R-matrix. <i>Journal of Physics A</i> , 1995 , 28, 3157-3175		2

46	Finite-size scaling of coherence and steered coherence in the Lipkin-Meshkov-Glick model. <i>Physical Review A</i> , 2021 , 104,	2.6	2
45	One-shot assisted distillation of coherence via one-way local quantum-incoherent operations and classical communication. <i>Physical Review A</i> , 2020 , 102,	2.6	2
44	Thermalization of topological entropy after a quantum quench. <i>Physical Review B</i> , 2016 , 94,	3.3	2
43	Amplifying asymmetry with correlating catalysts. <i>Physical Review A</i> , 2021 , 103,	2.6	2
42	Coherence as resource in scattering quantum walk search on complete graph. <i>Scientific Reports</i> , 2018 , 8, 11081	4.9	2
41	Nonlocal advantage of quantum coherence and entanglement of two spins under intrinsic decoherence*. <i>Chinese Physics B</i> , 2021 , 30, 070307	1.2	2
40	Multipartite distribution property of one way discord beyond measurement. <i>Annals of Physics</i> , 2015 , 354, 157-164	2.5	1
39	Characterizing multipartite entanglement by violation of CHSH inequalities. <i>Quantum Information Processing</i> , 2020 , 19, 1	1.6	1
38	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	2.3	1
37	Diagonal entropy and topological phase transitions in extended Kitaev chains. <i>Annals of Physics</i> , 2019 , 411, 167967	2.5	1
36	Fidelity of measurement-based quantum computation in a bosonic environment. <i>Physical Review A</i> , 2014 , 90,	2.6	1
35	Optimal asymmetric 1-j4 quantum cloning in arbitrary dimension. <i>European Physical Journal D</i> , 2011 , 65, 621-625	1.3	1
34	Exciton condensation in cavity quantum electrodynamics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 055302	1.3	1
33	Non-compression of quantum phase information. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012 , 45, 025304	2	1
32	Remarks on entanglement assisted classical capacity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 313, 182-187	2.3	1
31	Bethe Ansatz for the SU(4) Extension of the Hubbard Model. <i>Journal of the Physical Society of Japan</i> , 2000 , 69, 3797-3804	1.5	1
30	A one-dimensional many-body integrable model from Zn Belavin model with open boundary conditions. <i>Journal of Mathematical Physics</i> , 1998 , 39, 4746-4758	1.2	1
29	Non-Markovian dynamics control of spin-1/2 system interacting with magnets. <i>New Journal of Physics</i> , 2021 , 23, 113004	2.9	1

28	Localization of rung pairs in a hard-core Bose-Hubbard ladder. <i>Physical Review A</i> , 2020 , 102,	2.6	1
27	Measurement-Induced Nonlocality and Quantum Correlations Under Local Operations. <i>Quantum Science and Technology</i> , 2017 , 65-85	1.2	1
26	Achieving the Heisenberg limit under general Markovian noise using quantum error correction without ancilla. <i>Quantum Information Processing</i> , 2020 , 19, 1	1.6	1
25	Quantum speedup dynamics process without non-Markovianity. <i>Quantum Information Processing</i> , 2021 , 20, 1	1.6	1
24	Approximate quantum state reconstruction without a quantum channel. <i>Physical Review A</i> , 2018 , 98,	2.6	1
23	Exponential speedup of quantum newton optimization algorithm for general polynomials. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	1
22	Observation of Thermalization and Information Scrambling in a Superconducting Quantum Processor.. <i>Physical Review Letters</i> , 2022 , 128, 160502	7.4	1
21	Metrological Characterization of Non-Gaussian Entangled States of Superconducting Qubits.. <i>Physical Review Letters</i> , 2022 , 128, 150501	7.4	1
20	Observation of emergent Z2 gauge invariance in a superconducting circuit. <i>Physical Review Research</i> , 2022 , 4,	3.9	1
19	Reply to 'Enhancing a phase measurement by sequentially probing a solid-state system'. <i>Nature Communications</i> , 2016 , 7, 11521	17.4	0
18	Different Bell Inequalities as Probes to Detect Quantum Phase Transitions. <i>International Journal of Theoretical Physics</i> , 2021 , 60, 1611-1623	1.1	0
17	Strong Superadditive Deficit of Coherence and Quantum Correlations Distribution. <i>Chinese Physics Letters</i> , 2019 , 36, 080303	1.8	0
16	Efficient implementation of quantum arithmetic operation circuits. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	0
15	Coherence enhancement in state transfer with seven-qubit superconducting processor. <i>Fundamental Research</i> , 2021 , 1, 5		0
14	Measuring Loschmidt echo via Floquet engineering in superconducting circuits. <i>Chinese Physics B</i> , 2022 , 31, 030307	1.2	0
13	Multipartite Quantum Clock Synchronization under The Influence of Unruh Thermal Noise. <i>Annalen Der Physik</i> , 2019 , 531, 1900067	2.6	
12	Construction of Complete Orthogonal Genuine Multipartite Entanglement State. <i>Chinese Physics Letters</i> , 2019 , 36, 060301	1.8	
11	Quantum error correction assisted by two-way noisy communication. <i>Scientific Reports</i> , 2014 , 4, 7203	4.9	

- 10 Quantum entanglement between amide-I and amide-site in Davydov-Scott model. *European Physical Journal D*, **2014**, 68, 1 1.3
- 9 Constructing positive maps from block matrices. *Journal of Physics A: Mathematical and Theoretical*, **2013**, 46, 265303 2
- 8 Quantum discord: Discord between the whole and its constituent. *Journal of Physics A: Mathematical and Theoretical*, **2012**, 45, 425304 2
- 7 Fusion procedure for the Belavin model with open boundary conditions. *Journal of Physics A*, **1996**, 29, 5735-5743
- 6 Properties of eigenstates of the six-vertex model with twisted and open boundary conditions. *Journal of Mathematical Physics*, **1997**, 38, 3446-3456 1.2
- 5 The dynamical Yang-Baxter relation and the minimal representation of the elliptic quantum group. *Journal of Mathematical Physics*, **2003**, 44, 1276-1296 1.2
- 4 Geometrical analysis of probabilistic quantum cloning and identification of N states. *Journal of Physics A: Mathematical and Theoretical*, **2020**, 53, 325301 2
- 3 Multipartite Entanglement Structure Resolution Analyzer Based on Quantum-Control-Assisted Multipartite Uncertainty Relation. *Annalen Der Physik*, **2021**, 533, 2100014 2.6
- 2 Ferromagnetic Heisenberg spin chain in a resonator. *Chinese Physics B*, **2021**, 30, 090506 1.2
- 1 Quantum Cloning Machines **2006**, 63-110