

Cheng-Jie Zhang

List of Publications by Year in descending order

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48
papers

1,433
citations

471061

17
h-index

315357

38
g-index

48
all docs

48
docs citations

48
times ranked

975
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation of classical and quantum correlations under decoherence. Nature Communications, 2010, 1, 7.	5.8	364
2	Quantum discord of two-qubit states. Physical Review A, 2011, 84, .	1.0	240
3	Optimal entanglement witnesses based on local orthogonal observables. Physical Review A, 2007, 76, .	1.0	89
4	Entanglement detection beyond the computable cross-norm or realignment criterion. Physical Review A, 2008, 77, .	1.0	74
5	All Entangled Pure States Violate a Single Bell's Inequality. Physical Review Letters, 2012, 109, 120402.	2.9	74
6	Experimental investigation of the non-Markovian dynamics of classical and quantum correlations. Physical Review A, 2010, 82, .	1.0	65
7	Preservation of quantum correlation between separated nitrogen-vacancy centers embedded in photonic-crystal cavities. Physical Review A, 2013, 87, .	1.0	62
8	Observable estimation of entanglement for arbitrary finite-dimensional mixed states. Physical Review A, 2008, 78, .	1.0	41
9	Experimental simulation of anti-parity-time symmetric Lorentz dynamics. Optica, 2019, 6, 67.	4.8	35
10	Test of Genuine Multipartite Nonlocality without Inequalities. Physical Review Letters, 2014, 112, 140404.	2.9	31
11	Experimental certification for nonclassical teleportation. Quantum Engineering, 2019, 1, e13.	1.2	28
12	Detecting the quantum discord of an unknown state by a single observable. Physical Review A, 2011, 84, .	1.0	25
13	Experimental quantum cloning in a pseudo-unitary system. Physical Review A, 2020, 101, .	1.0	24
14	Experimentally Accessible Lower Bounds for Genuine Multipartite Entanglement and Coherence Measures. Physical Review Applied, 2020, 13, .	1.5	23
15	Entanglement detection via tighter local uncertainty relations. Physical Review A, 2010, 81, .	1.0	21
16	Detecting and Estimating Continuous-Variable Entanglement by Local Orthogonal Observables. Physical Review Letters, 2013, 111, 190501.	2.9	21
17	Observable estimation of entanglement of formation and quantum discord for bipartite mixed quantum states. Physical Review A, 2011, 84, .	1.0	20
18	Quantum coherence in a compass chain under an alternating magnetic field. Physical Review B, 2018, 97, .	1.1	20

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19	Experimental measurement of lower and upper bounds of concurrence for mixed quantum states. <i>Physical Review A</i> , 2009, 79, .	1.0	16
20	Generation and applications of an ultrahigh-fidelity four-photon Greenberger-Horne-Zeilinger state. <i>Optics Express</i> , 2016, 24, 27059.	1.7	15
21	Dynamics of quantum correlation between separated nitrogen-vacancy centers embedded in plasmonic waveguide. <i>Scientific Reports</i> , 2015, 5, 15513.	1.6	13
22	Genuine multipartite nonlocality in the one-dimensional ferromagnetic spin-1/2 chain. <i>Physical Review A</i> , 2017, 96, .	1.0	12
23	Detecting and estimating coherence based on coherence witnesses. <i>Physical Review A</i> , 2021, 103, .	1.0	12
24	Hierarchy of multipartite nonlocality in the nonsignaling scenario. <i>Physical Review A</i> , 2016, 94, .	1.0	11
25	Experimental test of genuine multipartite nonlocality under the no-signalling principle. <i>Scientific Reports</i> , 2016, 6, 39327.	1.6	10
26	Generalized speed and cost rate in transitionless quantum driving. <i>Physical Review A</i> , 2018, 97, .	1.0	10
27	Evaluation of entanglement measures by a single observable. <i>Physical Review A</i> , 2016, 94, .	1.0	9
28	Emergent phases in a compass chain with multisite interactions. <i>Physical Review B</i> , 2017, 95, .	1.1	9
29	Detection of bound entanglement in continuous-variable systems. <i>Physical Review A</i> , 2010, 82, .	1.0	8
30	Generalized-mean Cram�r-Rao bounds for multiparameter quantum metrology. <i>Physical Review A</i> , 2020, 101, .	1.0	8
31	Quantum deleting and cloning in a pseudo-unitary system. <i>Frontiers of Physics</i> , 2021, 16, 1.	2.4	7
32	Spin operator and entanglement in quantum field theory. <i>Physical Review D</i> , 2014, 90, .	1.6	6
33	Quantum discord of a three-qubit W-class state in noisy environments. <i>Quantum Information and Computation</i> , 2012, 12, 677-692.	0.1	5
34	Triangle inequalities in coherence measures and entanglement concurrence. <i>Physical Review A</i> , 2017, 96, .	1.0	4
35	Realization of the tradeoff between internal and external entanglement. <i>Physical Review Research</i> , 2020, 2, .	1.3	4
36	Numerical and analytical results for geometric measure of coherence and geometric measure of entanglement. <i>Scientific Reports</i> , 2020, 10, 12122.	1.6	3

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37	Uncertainty Relations of Non-Hermitian Operators: Theory and Experimental Scheme. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	3
38	LINEARITY OF QUANTUM PROBABILITY MEASURE AND HARDY'S MODEL. <i>International Journal of Modern Physics A</i> , 2014, 29, 1450017.	0.5	2
39	Characterizing multipartite entanglement by violation of CHSH inequalities. <i>Quantum Information Processing</i> , 2020, 19, 1.	1.0	2
40	Not All Entangled States are Useful for Ancilla-Assisted Quantum Process Tomography. <i>Annalen Der Physik</i> , 0, , 2100550.	0.9	2
41	Genuine entanglement of generalized Bell diagonal states. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 363, 57-65.	0.9	1
42	Negative entanglement measure for bipartite separable mixed states. <i>Physical Review A</i> , 2010, 82, .	1.0	1
43	Complete condition for nonzero quantum correlation in continuous variable systems. <i>New Journal of Physics</i> , 2015, 17, 093007.	1.2	1
44	Measurement-induced entropy increment for quantifying genuine coherence. <i>Quantum Information Processing</i> , 2021, 20, 1.	1.0	1
45	Observation of the tradeoff between internal quantum nonseparability and external classical correlations. <i>Physical Review A</i> , 2021, 104, .	1.0	1
46	Three-tangle rate controlled by local operation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 075304.	0.7	0
47	Generalized Hardy-type tests for hierarchy of multipartite non-locality*. <i>Chinese Physics B</i> , 2019, 28, 120306.	0.7	0
48	Single-mode multiphoton polarization states under random Pauli noises. <i>Physical Review A</i> , 2021, 103, .	1.0	0