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List of Publications by Year
in descending order

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112
papers

5,380
citations

147801

31
h-index

82547

72
g-index

115
all docs

115
docs citations

115
times ranked

1514
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum discord for two-qubit systems. Physical Review A, 2008, 77, .	2.5	892
2	Using measurement-induced disturbance to characterize correlations as classical or quantum. Physical Review A, 2008, 77, .	2.5	579
3	Geometric measure of quantum discord. Physical Review A, 2010, 82, .	2.5	408
4	Measurement-Induced Nonlocality. Physical Review Letters, 2011, 106, 120401.	7.8	299
5	Quantifying non-Markovianity via correlations. Physical Review A, 2012, 86, .	2.5	295
6	Wigner-Yanase Skew Information and Uncertainty Relations. Physical Review Letters, 2003, 91, 180403.	7.8	282
7	Wigner-Yanase skew information vs. quantum Fisher information. Proceedings of the American Mathematical Society, 2003, 132, 885-890.	0.8	158
8	Informational distance on quantum-state space. Physical Review A, 2004, 69, .	2.5	153
9	Heisenberg uncertainty relation for mixed states. Physical Review A, 2005, 72, .	2.5	126
10	Quantum speedup in a memory environment. Physical Review A, 2014, 89, .	2.5	125
11	Entanglement detection via quantum Fisher information. Physical Review A, 2013, 88, .	2.5	112
12	Remedying the local ancilla problem with geometric discord. Physical Review A, 2013, 87, .	2.5	107
13	Total versus quantum correlations in quantum states. Physical Review A, 2007, 76, .	2.5	99
14	Quantum coherence versus quantum uncertainty. Physical Review A, 2017, 96, .	2.5	84
15	Quantifying correlations via the Wigner-Yanase skew information. Physical Review A, 2012, 85, .	2.5	79
16	Quantum Fisher Information and Uncertainty Relations. Letters in Mathematical Physics, 2000, 53, 243-251.	1.1	77
17	Quantum uncertainty of mixed states based on skew information. Physical Review A, 2006, 73, .	2.5	76
18	Coherence and complementarity in state-channel interaction. Physical Review A, 2018, 98, .	2.5	66

#	ARTICLE	IF	CITATIONS
19	Classical states versus separable states. Physical Review A, 2008, 78, .	2.5	65
20	Decomposition of bipartite states with applications to quantum no-broadcasting theorems. Physical Review A, 2010, 82, .	2.5	51
21	Quantifying nonclassicality via Wigner-Yanase skew information. Physical Review A, 2019, 100, .	2.5	49
22	Quantum non-Markovianity based on the Fisher-information matrix. Physical Review A, 2015, 91, .	2.5	47
23	Comparing quantum Markovianities: Distinguishability versus correlations. Physical Review A, 2013, 88, .	2.5	46
24	From quantum coherence to quantum correlations. Europhysics Letters, 2017, 118, 60007.	2.0	44
25	Observable Correlations in Two-Qubit States. Journal of Statistical Physics, 2009, 136, 165-177.	1.2	41
26	Partial coherence with application to the monotonicity problem of coherence involving skew information. Physical Review A, 2017, 96, .	2.5	40
27	Global effects of quantum states induced by locally invariant measurements. Europhysics Letters, 2010, 92, 20004.	2.0	38
28	Superadditivity of Wigner-Yanase-Dyson Information Revisited. Journal of Statistical Physics, 2008, 131, 1169-1177.	1.2	35
29	An Informational Characterization of SchrÅdinger's Uncertainty Relations. Journal of Statistical Physics, 2004, 114, 1557-1576.	1.2	34
30	Information conservation and entropy change in quantum measurements. Physical Review A, 2010, 82, .	2.5	33
31	Broadcasting quantum Fisher information. Physical Review A, 2013, 87, .	2.5	32
32	On Decaying Rate of Quantum States. Letters in Mathematical Physics, 2005, 71, 1-11.	1.1	29
33	Brukner-Zeilinger invariant information. Theoretical and Mathematical Physics(Russian Federation), 2007, 151, 693-699.	0.9	29
34	Decorrelating capabilities of operations with application to decoherence. Physical Review A, 2010, 82, .	2.5	29
35	Statistics of Local Value in Quantum Mechanics. International Journal of Theoretical Physics, 2002, 41, 1713-1731.	1.2	28
36	Classical and quantum correlative capacities of quantum systems. Physical Review A, 2011, 84, .	2.5	28

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37	Experimental simulation of the Unruh effect on an NMR quantum simulator. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	28
38	On Quantum No-Broadcasting. Letters in Mathematical Physics, 2010, 92, 143-153.	1.1	25
39	Quantumness of quantum ensembles. Theoretical and Mathematical Physics(Russian Federation), 2011, 169, 1724-1739.	0.9	24
40	Evaluating the geometric measure of quantum discord. Theoretical and Mathematical Physics(Russian) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.9	24
41	Decoherence and measurement-induced correlations. Physical Review A, 2011, 84, .	2.5	23
42	Hierarchy of measurement-induced Fisher information for composite states. Physical Review A, 2012, 86, .	2.5	23
43	Maximum Shannon Entropy, Minimum Fisher Information, and an Elementary Game. Foundations of Physics, 2002, 32, 1757-1772.	1.3	22
44	How quantum is a quantum ensemble?. Quantum Information Processing, 2010, 9, 711-726.	2.2	20
45	Average versus maximal coherence. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2869-2873.	2.1	20
46	Direct approach to quantum extensions of Fisher information. Frontiers of Mathematics in China, 2007, 2, 359-381.	0.7	18
47	Relative entropy between quantum ensembles. Periodica Mathematica Hungarica, 2009, 59, 223-237.	0.9	17
48	Comparing quantum cloning: A Fisher-information perspective. Physical Review A, 2013, 88, .	2.5	17
49	Quantum states as observables: Their variance and nonclassicality. Physical Review A, 2020, 102, .	2.5	17
50	Coherence as uncertainty. Physical Review A, 2021, 103, .	2.5	16
51	Quantifying the quantumness of ensembles. Physical Review A, 2017, 96, .	2.5	15
52	Detecting nonclassicality of light via Lieb's concavity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 125836.	2.1	15
53	Quantumness of Bosonic Field States. International Journal of Theoretical Physics, 2020, 59, 206-217.	1.2	15
54	Notes on Superadditivity of Wignerâ€“Yanaseâ€“Dyson Information. Journal of Statistical Physics, 2007, 128, 1177-1188.	1.2	14

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55	Entanglement as minimal discord over state extensions. Physical Review A, 2016, 94, .	2.5	14
56	On Convexity of Generalized Wignerâ€Yanaseâ€Dyson Information. Letters in Mathematical Physics, 2008, 83, 253-264.	1.1	13
57	Skew information-based uncertainty relations for quantum channels. Quantum Information Processing, 2019, 18, 1.	2.2	12
58	Skew information decreases under quantum measurements. Theoretical and Mathematical Physics(Russian Federation), 2007, 151, 529-538.	0.9	11
59	From quantum no-cloning to wave-packet collapse. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 1350-1353.	2.1	11
60	Information-theoretic approach to atomic spin nonclassicality. Physical Review A, 2019, 100, .	2.5	11
61	Detecting Magic States via Characteristic Functions. International Journal of Theoretical Physics, 2022, 61, 1.	1.2	11
62	Fisher Information Matrix of Husimi Distribution. Journal of Statistical Physics, 2001, 102, 1417-1428.	1.2	10
63	Quantum speed limit for qubit systems: Exact results. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2599-2604.	2.1	10
64	Quantifying non-Gaussianity of bosonic fields via an uncertainty relation. Physical Review A, 2020, 101, .	2.5	10
65	Clocks and fisher information. Theoretical and Mathematical Physics(Russian Federation), 2010, 165, 1552-1564.	0.9	9
66	Quantum criticality from Fisher information. Quantum Information Processing, 2017, 16, 1.	2.2	9
67	Gaussian states as minimum uncertainty states. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126037.	2.1	9
68	Skew Information Revisited: Its Variants and a Comparison of Them. Theoretical and Mathematical Physics(Russian Federation), 2020, 202, 104-111.	0.9	9
69	A simple proof of Wehrl's conjecture on entropy. Journal of Physics A, 2000, 33, 3093-3096.	1.6	8
70	Converting nonclassicality to quantum correlations via beamsplitters. Europhysics Letters, 2019, 128, 30003.	2.0	8
71	Quantifying unsharpness of measurements via uncertainty. Physical Review A, 2021, 104, .	2.5	8
72	Information transfer in generalized probabilistic theories. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2694-2697.	2.1	7

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73	Quantumness-generating capability of quantum dynamics. Quantum Information Processing, 2018, 17, 1.	2.2	7
74	From asymmetry to correlations. Europhysics Letters, 2020, 130, 30004.	2.0	7
75	Atomic nonclassicality in the Jaynes-Cummings model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126371.	2.1	7
76	Quantifying Decoherence of Gaussian Noise Channels. Journal of Statistical Physics, 2021, 183, 1.	1.2	7
77	Equioverlapping measurements. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 445, 128243.	2.1	7
78	MAXIMUM NONLOCAL EFFECTS OF QUANTUM STATES. International Journal of Quantum Information, 2011, 09, 1587-1598.	1.1	6
79	Monotonicity of quantumness of ensembles under commutativity-preserving channels. Physical Review A, 2019, 99, .	2.5	6
80	Dynamics of field nonclassicality in the Jaynes-Cummings model. Quantum Information Processing, 2021, 20, 1.	2.2	6
81	Quantifying correlations via local channels. Physical Review A, 2022, 105, .	2.5	6
82	Non-Markovian effect on remote state preparation. Annals of Physics, 2015, 356, 29-36.	2.8	5
83	An enhanced proposal on decoy-state measurement device-independent quantum key distribution. Quantum Information Processing, 2016, 15, 3785-3797.	2.2	5
84	Information-theoretic aspects of Werner states. Annals of Physics, 2021, 424, 168371.	2.8	5
85	Gram Matrices of Mixed-State Ensembles. International Journal of Theoretical Physics, 2021, 60, 3211-3224.	1.2	5
86	From wave-particle duality to wave-particle-mixedness triality: an uncertainty approach. Communications in Theoretical Physics, 2022, 74, 035103.	2.5	5
87	Quantumness of ensemble via coherence of Gram matrix. Europhysics Letters, 2021, 134, 30003.	2.0	4
88	Quantifying Interference via Coherence. Annalen Der Physik, 2021, 533, 2100303.	2.4	4
89	Spin nonclassicality and quantum phase transition in the XY spin model. Physica Scripta, 2020, 95, 105107.	2.5	4
90	Gaussian kernel operators on white noise functional spaces. Science in China Series A: Mathematics, 2000, 43, 1067-1074.	0.5	3

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91	Separability and entanglement in tripartite states. Theoretical and Mathematical Physics(Russian) Tj ETQq1 1 0.784314 rgBT /Overl	0.9	3
92	Classicality versus quantumness in Born's probability. Physical Review A, 2017, 96, .	2.5	3
93	Quantifying non-Gaussianity via the Hellinger distance. Theoretical and Mathematical Physics(Russian) Tj ETQq1 1 0.784314 rgBT /Overl	0.9	3
94	Wigner function, Wigner-Yanase skew information, and parity asymmetry. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 395, 127222.	2.1	3
95	Uncertainty regions of observables and state-independent uncertainty relations. Quantum Information Processing, 2021, 20, 1.	2.2	3
96	On Wick product of generalized operators. Science Bulletin, 1998, 43, 1252-1256.	1.7	2
97	Detecting non-Gaussianity via nonclassicality. Physica Scripta, 2020, 95, 035101.	2.5	2
98	Entropy excesses as quantifiers of nonclassicality. European Physical Journal Plus, 2021, 136, 1.	2.6	2
99	Spin nonclassicality via variance. Theoretical and Mathematical Physics(Russian Federation), 2021, 208, 916-925.	0.9	2
100	Decoherent Information of Quantum Operations. Interdisciplinary Mathematical Sciences, 2010, , 23-42.	0.4	2
101	Quantifying Decoherence via Increases in Classicality. Entropy, 2021, 23, 1594.	2.2	2
102	Stochastic analysis of particle-fluid two-phase flows. Science Bulletin, 2000, 45, 806-810.	1.7	1
103	Fisher Concord: Efficiency of Quantum Measurement. Quantum Measurements and Quantum Metrology, 2016, 3, .	3.3	1
104	From squeezing to Gaussian entanglement via beamsplitters. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 085501.	1.5	1
105	Dynamics of nonclassicality in photon-loss channel. Physica Scripta, 2020, 95, 075108.	2.5	1
106	Post-measurement quantumness. Physica Scripta, 2021, 96, 125025.	2.5	1
107	From the Wigner function to the \$\$\$-ordered phase-space distribution via a Gaussian noise channel. Theoretical and Mathematical Physics(Russian Federation), 2022, 210, 425-441.	0.9	1
108	Generalized Fourier-Mehler transforms on white noise functional spaces. Science Bulletin, 1998, 43, 1321-1325.	1.7	0

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109	Entanglement measures based on observable correlations. Theoretical and Mathematical Physics(Russian Federation), 2008, 155, 896-904.	0.9	0
110	A functional transformation approach to interest rate modelling. Advances in Statistics, Probability and Actuarial Science, 2012, , 303-315.	0.2	0
111	Arbitrage Pricing Systems in a Market Driven by an ItÃ´ Process. , 2001, , .		0
112	Detecting spin nonclassicality via average skew information. European Physical Journal Plus, 2022, 137, .	2.6	0