

Nengkun Yu

List of Publications by Citations

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

51
papers

674
citations

16
h-index

24
g-index

54
ext. papers

863
ext. citations

3
avg, IF

4.41
L-index

#	Paper	IF	Citations
51	Four locally indistinguishable ququad-ququad orthogonal maximally entangled states. <i>Physical Review Letters</i> , 2012 , 109, 020506	7.4	79
50	Any 2^{2n} subspace is locally distinguishable. <i>Physical Review A</i> , 2011 , 84,	2.6	40
49	Sample-Optimal Tomography of Quantum States. <i>IEEE Transactions on Information Theory</i> , 2017 , 1-1	2.8	36
48	Obtaining a W state from a Greenberger-Horne-Zeilinger state via stochastic local operations and classical communication with a rate approaching unity. <i>Physical Review Letters</i> , 2014 , 112, 160401	7.4	33
47	. <i>IEEE Transactions on Information Theory</i> , 2014 , 60, 2069-2079	2.8	31
46	Five two-qubit gates are necessary for implementing the Toffoli gate. <i>Physical Review A</i> , 2013 , 88,	2.6	31
45	Tomography is Necessary for Universal Entanglement Detection with Single-Copy Observables. <i>Physical Review Letters</i> , 2016 , 116, 230501	7.4	30
44	Model checking quantum Markov chains. <i>Journal of Computer and System Sciences</i> , 2013 , 79, 1181-1198	1	30
43	Quantum State Tomography via Reduced Density Matrices. <i>Physical Review Letters</i> , 2017 , 118, 020401	7.4	28
42	. <i>IEEE Transactions on Information Theory</i> , 2015 , 61, 3593-3604	2.8	28
41	Verification of quantum programs. <i>Science of Computer Programming</i> , 2013 , 78, 1679-1700	1.1	25
40	Optimal simulation of Deutsch gates and the Fredkin gate. <i>Physical Review A</i> , 2015 , 91,	2.6	20
39	Projection-based runtime assertions for testing and debugging Quantum programs 2020 , 4, 1-29		20
38	Quantum state and process tomography via adaptive measurements. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016 , 59, 1	3.6	19
37	Tensor rank of the tripartite state $ W\rangle^n$. <i>Physical Review A</i> , 2010 , 81,	2.6	17
36	Discontinuity of maximum entropy inference and quantum phase transitions. <i>New Journal of Physics</i> , 2015 , 17, 083019	2.9	16
35	Separability of a mixture of Dicke states. <i>Physical Review A</i> , 2016 , 94,	2.6	16

34	An applied quantum Hoare logic 2019 ,		15
33	Sample-optimal tomography of quantum states 2016 ,		13
32	Model-Checking Linear-Time Properties of Quantum Systems. <i>ACM Transactions on Computational Logic</i> , 2014 , 15, 1-31	0.9	12
31	Generalized graph states based on Hadamard matrices. <i>Journal of Mathematical Physics</i> , 2015 , 56, 072201.2	1.2	11
30	Multipartite W-type state is determined by its single-particle reduced density matrices among all W-type states. <i>Physical Review A</i> , 2013 , 87,	2.6	11
29	Reachability Probabilities of Quantum Markov Chains. <i>Lecture Notes in Computer Science</i> , 2013 , 334-348	0.9	10
28	Relational proofs for quantum programs 2020 , 4, 1-29		9
27	Bounds on the Distance Between a Unital Quantum Channel and the Convex Hull of Unitary Channels. <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 1299-1310	2.8	8
26	Reachability and Termination Analysis of Concurrent Quantum Programs. <i>Lecture Notes in Computer Science</i> , 2012 , 69-83	0.9	8
25	Experimental Quantification of Coherence of a Tunable Quantum Detector. <i>Physical Review Letters</i> , 2020 , 125, 060404	7.4	7
24	Detecting consistency of overlapping quantum marginals by separability. <i>Physical Review A</i> , 2016 , 93,	2.6	6
23	Termination of nondeterministic quantum programs. <i>Acta Informatica</i> , 2014 , 51, 1-24	0.9	6
22	Quantum programming: From theories to implementations. <i>Science Bulletin</i> , 2012 , 57, 1903-1909		6
21	Quantum abstract interpretation 2021 ,		6
20	A Quantum Interpretation of Bunched Logic & Quantum Separation Logic 2021 ,		6
19	Physical origins of ruled surfaces on the reduced density matrices geometry. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017 , 60, 1	3.6	5
18	Optimal simulation of a perfect entangler. <i>Physical Review A</i> , 2010 , 81,	2.6	5
17	Exponential separation of quantum communication and classical information 2017 ,		4

16	Joint product numerical range and geometry of reduced density matrices. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017 , 60, 1	3.6	4
15	Protocols for Packet Quantum Network Intercommunication. <i>IEEE Transactions on Quantum Engineering</i> , 2021 , 1-1	2.9	4
14	Entanglement depth for symmetric states. <i>Physical Review A</i> , 2016 , 94,	2.6	3
13	Strassen's theorem for quantum couplings. <i>Theoretical Computer Science</i> , 2020 , 802, 67-76	1.1	3
12	On incorrectness logic for Quantum programs 2022 , 6, 1-28		3
11	Continuous-time orbit problems are decidable in polynomial-time. <i>Information Processing Letters</i> , 2015 , 115, 11-14	0.8	2
10	Local Equivalence of Multipartite Entanglement. <i>IEEE Journal on Selected Areas in Communications</i> , 2020 , 38, 568-574	14.2	1
9	Multipartite Entanglement Certification, With or Without Tomography. <i>IEEE Transactions on Information Theory</i> , 2020 , 66, 6369-6377	2.8	1
8	Capacity approaching coding for low noise interactive quantum communication 2018 ,		1
7	Reachability Analysis of Recursive Quantum Markov Chains. <i>Lecture Notes in Computer Science</i> , 2013 , 385-396	0.9	1
6	Maximum privacy without coherence, zero-error. <i>Journal of Mathematical Physics</i> , 2016 , 57, 092202	1.2	1
5	Discrimination of quantum states under locality constraints in the many-copy setting 2021 ,		1
4	When is the Chernoff Exponent for Quantum Operations Finite?. <i>IEEE Transactions on Information Theory</i> , 2021 , 67, 4517-4523	2.8	1
3	Comments on and Corrections to "When Is the Chernoff Exponent for Quantum Operations Finite?" <i>IEEE Transactions on Information Theory</i> , 2022 , 68, 3989-3990	2.8	0
2	Determinantal Complexities and Field Extensions. <i>Lecture Notes in Computer Science</i> , 2013 , 119-129	0.9	
1	LOCC protocols with bounded width per round optimize convex functions. <i>Reviews in Mathematical Physics</i> , 2021 , 33, 2150013	1.2	