

# Nengkun Yu

## List of Publications by Year in Descending Order

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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	On incorrectness logic for Quantum programs <b>2022</b> , 6, 1-28		3
50	Comments on and Corrections to "When Is the Chernoff Exponent for Quantum Operations Finite?" <i>IEEE Transactions on Information Theory</i> , <b>2022</b> , 68, 3989-3990	2.8	0
49	Quantum abstract interpretation <b>2021</b> ,		6
48	A Quantum Interpretation of Bunched Logic & Quantum Separation Logic <b>2021</b> ,		6
47	Protocols for Packet Quantum Network Intercommunication. <i>IEEE Transactions on Quantum Engineering</i> , <b>2021</b> , 1-1	2.9	4
46	Discrimination of quantum states under locality constraints in the many-copy setting <b>2021</b> ,		1
45	When is the Chernoff Exponent for Quantum Operations Finite?. <i>IEEE Transactions on Information Theory</i> , <b>2021</b> , 67, 4517-4523	2.8	1
44	LOCC protocols with bounded width per round optimize convex functions. <i>Reviews in Mathematical Physics</i> , <b>2021</b> , 33, 2150013	1.2	
43	Local Equivalence of Multipartite Entanglement. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2020</b> , 38, 568-574	14.2	1
42	Multipartite Entanglement Certification, With or Without Tomography. <i>IEEE Transactions on Information Theory</i> , <b>2020</b> , 66, 6369-6377	2.8	1
41	Relational proofs for quantum programs <b>2020</b> , 4, 1-29		9
40	Projection-based runtime assertions for testing and debugging Quantum programs <b>2020</b> , 4, 1-29		20
39	Strassen's theorem for quantum couplings. <i>Theoretical Computer Science</i> , <b>2020</b> , 802, 67-76	1.1	3
38	Experimental Quantification of Coherence of a Tunable Quantum Detector. <i>Physical Review Letters</i> , <b>2020</b> , 125, 060404	7.4	7
37	An applied quantum Hoare logic <b>2019</b> ,		15
36	Capacity approaching coding for low noise interactive quantum communication <b>2018</b> ,		1
35	Bounds on the Distance Between a Unital Quantum Channel and the Convex Hull of Unitary Channels. <i>IEEE Transactions on Information Theory</i> , <b>2017</b> , 63, 1299-1310	2.8	8

34	Physical origins of ruled surfaces on the reduced density matrices geometry. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2017</b> , 60, 1	3.6	5
33	Quantum State Tomography via Reduced Density Matrices. <i>Physical Review Letters</i> , <b>2017</b> , 118, 020401	7.4	28
32	Exponential separation of quantum communication and classical information <b>2017</b> ,		4
31	Sample-Optimal Tomography of Quantum States. <i>IEEE Transactions on Information Theory</i> , <b>2017</b> , 1-1	2.8	36
30	Joint product numerical range and geometry of reduced density matrices. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2017</b> , 60, 1	3.6	4
29	Quantum state and process tomography via adaptive measurements. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2016</b> , 59, 1	3.6	19
28	Detecting consistency of overlapping quantum marginals by separability. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	6
27	Tomography is Necessary for Universal Entanglement Detection with Single-Copy Observables. <i>Physical Review Letters</i> , <b>2016</b> , 116, 230501	7.4	30
26	Entanglement depth for symmetric states. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	3
25	Maximum privacy without coherence, zero-error. <i>Journal of Mathematical Physics</i> , <b>2016</b> , 57, 092202	1.2	1
24	Separability of a mixture of Dicke states. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	16
23	Sample-optimal tomography of quantum states <b>2016</b> ,		13
22	Optimal simulation of Deutsch gates and the Fredkin gate. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	20
21	. <i>IEEE Transactions on Information Theory</i> , <b>2015</b> , 61, 3593-3604	2.8	28
20	Continuous-time orbit problems are decidable in polynomial-time. <i>Information Processing Letters</i> , <b>2015</b> , 115, 11-14	0.8	2
19	Generalized graph states based on Hadamard matrices. <i>Journal of Mathematical Physics</i> , <b>2015</b> , 56, 072201.2	1.2	11
18	Discontinuity of maximum entropy inference and quantum phase transitions. <i>New Journal of Physics</i> , <b>2015</b> , 17, 083019	2.9	16
17	. <i>IEEE Transactions on Information Theory</i> , <b>2014</b> , 60, 2069-2079	2.8	31

16	Termination of nondeterministic quantum programs. <i>Acta Informatica</i> , <b>2014</b> , 51, 1-24	0.9	6
15	Model-Checking Linear-Time Properties of Quantum Systems. <i>ACM Transactions on Computational Logic</i> , <b>2014</b> , 15, 1-31	0.9	12
14	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> , <b>2014</b> , 112, 160401	7.4	33
13	Verification of quantum programs. <i>Science of Computer Programming</i> , <b>2013</b> , 78, 1679-1700	1.1	25
12	Five two-qubit gates are necessary for implementing the Toffoli gate. <i>Physical Review A</i> , <b>2013</b> , 88,	2.6	31
11	Model checking quantum Markov chains. <i>Journal of Computer and System Sciences</i> , <b>2013</b> , 79, 1181-1198	1	30
10	Multipartite W-type state is determined by its single-particle reduced density matrices among all W-type states. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	11
9	Reachability Probabilities of Quantum Markov Chains. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 334-348	0.9	10
8	Reachability Analysis of Recursive Quantum Markov Chains. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 385-396	0.9	1
7	Determinantal Complexities and Field Extensions. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 119-129	0.9	
6	Four locally indistinguishable ququad-ququad orthogonal maximally entangled states. <i>Physical Review Letters</i> , <b>2012</b> , 109, 020506	7.4	79
5	Quantum programming: From theories to implementations. <i>Science Bulletin</i> , <b>2012</b> , 57, 1903-1909		6
4	Reachability and Termination Analysis of Concurrent Quantum Programs. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 69-83	0.9	8
3	Any $2^n$ subspace is locally distinguishable. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	40
2	Optimal simulation of a perfect entangler. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	5
1	Tensor rank of the tripartite state $ W\rangle^n$ . <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	17