Runyao Duan

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65 1,430 24 35 h-index g-index papers citations 66 1,686 4.84 3.5 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
65	Four locally indistinguishable ququad-ququad orthogonal maximally entangled states. <i>Physical Review Letters</i> , 2012 , 109, 020506	7.4	79
64	Zero-Error Communication via Quantum Channels, Noncommutative Graphs, and a Quantum LovBz Number. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 1164-1174	2.8	78
63	. IEEE Transactions on Information Theory, 2008 , 54, 5172-5185	2.8	77
62	Entanglement is not necessary for perfect discrimination between unitary operations. <i>Physical Review Letters</i> , 2007 , 98, 100503	7.4	72
61	Perfect distinguishability of quantum operations. <i>Physical Review Letters</i> , 2009 , 103, 210501	7.4	65
60	Distinguishability of Quantum States by Separable Operations. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 1320-1330	2.8	62
59	Distinguishing arbitrary multipartite basis unambiguously using local operations and classical communication. <i>Physical Review Letters</i> , 2007 , 98, 230502	7.4	52
58	Locally indistinguishable subspaces spanned by three-qubit unextendible product bases. <i>Physical Review A</i> , 2010 , 81,	2.6	50
57	Quantum majorization and a complete set of entropic conditions for quantum thermodynamics. <i>Nature Communications</i> , 2018 , 9, 5352	17.4	47
56	Any 2?n subspace is locally distinguishable. <i>Physical Review A</i> , 2011 , 84,	2.6	40
55	Local distinguishability of multipartite unitary operations. <i>Physical Review Letters</i> , 2008 , 100, 020503	7.4	40
54	Tripartite entanglement transformations and tensor rank. <i>Physical Review Letters</i> , 2008 , 101, 140502	7.4	37
53	Identification and distance measures of measurement apparatus. <i>Physical Review Letters</i> , 2006 , 96, 200	04 9 .4	36
52	An algebra of quantum processes. ACM Transactions on Computational Logic, 2009, 10, 1-36	0.9	35
51	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
50	Tensor rank and stochastic entanglement catalysis for multipartite pure states. <i>Physical Review Letters</i> , 2010 , 105, 200501	7.4	32
49	. IEEE Transactions on Information Theory, 2014 , 60, 2069-2079	2.8	31

48	Proof rules for the correctness of quantum programs. <i>Theoretical Computer Science</i> , 2007 , 386, 151-166	1.1	29
47	Improved semidefinite programming upper bound on distillable entanglement. <i>Physical Review A</i> , 2016 , 94,	2.6	28
46	. IEEE Transactions on Information Theory, 2014 , 60, 1549-1561	2.8	26
45	Nonlocal entanglement transformations achievable by separable operations. <i>Physical Review Letters</i> , 2009 , 103, 110502	7.4	26
44	Semidefinite Programming Strong Converse Bounds for Classical Capacity. <i>IEEE Transactions on Information Theory</i> , 2018 , 64, 640-653	2.8	25
43	Verification of quantum programs. Science of Computer Programming, 2013, 78, 1679-1700	1.1	25
42	. IEEE Transactions on Information Theory, 2016 , 62, 891-914	2.8	24
41	Probabilistic bisimulations for quantum processes. <i>Information and Computation</i> , 2007 , 205, 1608-1639	0.8	24
40	Non-Asymptotic Entanglement Distillation. <i>IEEE Transactions on Information Theory</i> , 2019 , 65, 6454-646	5 5 2.8	20
39	No-go theorem for one-way quantum computing on naturally occurring two-level systems. <i>Physical Review A</i> , 2011 , 83,	2.6	19
38	Bisimulation for quantum processes 2011,		19
37	Multiple-copy entanglement transformation and entanglement catalysis. <i>Physical Review A</i> , 2005 , 71,	2.6	19
36	Tensor rank of the tripartite state W>?n. Physical Review A, 2010, 81,	2.6	17
35	Local distinguishability of orthogonal 2?3 pure states. <i>Physical Review A</i> , 2008 , 77,	2.6	15
34	The existence of quantum entanglement catalysts. <i>IEEE Transactions on Information Theory</i> , 2005 , 51, 75-80	2.8	15
33	Entanglement between two uses of a noisy multipartite quantum channel enables perfect transmission of classical information. <i>Physical Review Letters</i> , 2008 , 101, 020501	7.4	14
32	Catalyst-assisted probabilistic entanglement transformation. <i>IEEE Transactions on Information Theory</i> , 2005 , 51, 1090-1101	2.8	14
31	Nonadditivity of Rains bound for distillable entanglement. <i>Physical Review A</i> , 2017 , 95,	2.6	13

30	A semidefinite programming upper bound of quantum capacity 2016 ,		13
29	Indistinguishability of bipartite states by positive-partial-transpose operations in the many-copy scenario. <i>Physical Review A</i> , 2017 , 95,	2.6	11
28	Irreversibility of Asymptotic Entanglement Manipulation Under Quantum Operations Completely Preserving Positivity of Partial Transpose. <i>Physical Review Letters</i> , 2017 , 119, 180506	7.4	11
27	Bisimulation for Quantum Processes. <i>ACM Transactions on Programming Languages and Systems</i> , 2012 , 34, 1-43	1.6	11
26	Exact quantum search by parallel unitary discrimination schemes. <i>Physical Review A</i> , 2008 , 78,	2.6	10
25	Trade-off between multiple-copy transformation and entanglement catalysis. <i>Physical Review A</i> , 2005 , 71,	2.6	9
24	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
23	Multi-error-correcting amplitude damping codes 2010 ,		8
22	Commutativity of quantum weakest preconditions. <i>Information Processing Letters</i> , 2007 , 104, 152-158	0.8	8
21	Entanglement-assisted transformation is asymptotically equivalent to multiple-copy transformation. <i>Physical Review A</i> , 2005 , 72,	2.6	8
20	(Q SIrangle): A Quantum Programming Environment. Lecture Notes in Computer Science, 2018, 133-164	0.9	8
19	Parallel distinguishability of quantum operations 2016,		7
18	. IEEE Transactions on Information Theory, 2016 , 62, 5260-5277	2.8	7
17	Conditions for entanglement transformation between a class of multipartite pure states with generalized Schmidt decompositions. <i>Physical Review A</i> , 2007 , 76,	2.6	7
16	Quantum programming: From theories to implementations. <i>Science Bulletin</i> , 2012 , 57, 1903-1909		6
15	Multipartite-to-bipartite entanglement transformations and polynomial identity testing. <i>Physical Review A</i> , 2010 , 81,	2.6	6
14	Bisimulation for quantum processes. ACM SIGPLAN Notices, 2011, 46, 523-534	0.2	6
13	Predicate Transformer Semantics of Quantum Programs311-360		6

LIST OF PUBLICATIONS

12	Optimal simulation of a perfect entangler. <i>Physical Review A</i> , 2010 , 81,	2.6	5	
11	Partial recovery of quantum entanglement. <i>IEEE Transactions on Information Theory</i> , 2006 , 52, 3080-31	1 04 .8	5	
10	Relation between catalyst-assisted transformation and multiple-copy transformation for bipartite pure states. <i>Physical Review A</i> , 2006 , 74,	2.6	5	
9	Comparability of multipartite entanglement. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004 , 330, 418-423	2.3	5	
8	Tripartite-to-Bipartite Entanglement Transformation by Stochastic Local Operations and Classical Communication and the Structure of Matrix Spaces. <i>Communications in Mathematical Physics</i> , 2018 , 358, 791-814	2	4	
7	Efficiency of deterministic entanglement transformation. <i>Physical Review A</i> , 2005 , 71,	2.6	4	
6	A new property of the Lov\(\text{\texts}\)z number and duality relations between graph parameters. <i>Discrete Applied Mathematics</i> , 2017 , 216, 489-501	1	3	
5	Distinguishing unitary gates on the IBM quantum processor. <i>Science China Information Sciences</i> , 2019 , 62, 1	3.4	3	
4	Separation Between Quantum Lov Z Number and Entanglement-Assisted Zero-Error Classical Capacity. <i>IEEE Transactions on Information Theory</i> , 2018 , 64, 1454-1460	2.8	3	
3	Approximate broadcasting of quantum correlations. <i>Physical Review A</i> , 2017 , 96,	2.6	2	
2	Local unambiguous discrimination with remaining entanglement. Physical Review A, 2010, 82,	2.6	2	
1	Implementing termination analysis on quantum programming. <i>Science China Information Sciences</i> , 2019 , 62, 1	3.4	1	