Anurag Anshu

List of Publications by Year
in descending order

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32	364	933447 10	839539 18
papers	citations	h-index	g-index

32	32	32	181
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sample-efficient learning of interacting quantum systems. Nature Physics, 2021, 17, 931-935.	16.7	49
2	Quantum Communication Using Coherent Rejection Sampling. Physical Review Letters, 2017, 119, 120506.	7.8	48
3	Quantifying Resources in General Resource Theory with Catalysts. Physical Review Letters, 2018, 121, 190504.	7.8	41
4	Building Blocks for Communication Over Noisy Quantum Networks. IEEE Transactions on Information Theory, 2019, 65, 1287-1306.	2.4	33
5	Revivals imply quantum many-body scars. Physical Review B, 2020, 101, .	3.2	30
6	Simple proof of the detectability lemma and spectral gap amplification. Physical Review B, 2016, 93, .	3.2	19
7	Partially Smoothed Information Measures. IEEE Transactions on Information Theory, 2020, 66, 5022-5036.	2.4	17
8	A One-Shot Achievability Result for Quantum State Redistribution. IEEE Transactions on Information Theory, 2018, 64, 1425-1435.	2.4	15
9	A Generalized Quantum Slepianâ€“Wolf. IEEE Transactions on Information Theory, 2018, 64, 1436-1453.	2.4	13
10	On the near-optimality of one-shot classical communication over quantum channels. Journal of Mathematical Physics, 2019, 60, .	1.1	13
11	New One Shot Quantum Protocols With Application to Communication Complexity. IEEE Transactions on Information Theory, 2016, 62, 7566-7577.	2.4	10
12	Improved Approximation Algorithms for Bounded-Degree Local Hamiltonians. Physical Review Letters, 2021, 127, 250502.	7.8	10
13	A minimax approach to one-shot entropy inequalities. Journal of Mathematical Physics, 2019, 60, 122201.	1.1	9
14	One-Shot Capacity Bounds on the Simultaneous Transmission of Classical and Quantum Information. IEEE Transactions on Information Theory, 2020, 66, 2141-2164.	2.4	8
15	Exponential separation of quantum communication and classical information. , 2017, , .		7
16	A lower bound on the crossing number of uniform hypergraphs. Discrete Applied Mathematics, 2016, 209, 11-15.	0.9	5
17	Secure Communication Over Fully Quantum Gel' Fand-Pinsker Wiretap Channel. , 2018, , .		5
18	Convex-Split and Hypothesis Testing Approach to One-Shot Quantum Measurement Compression and Randomness Extraction. IEEE Transactions on Information Theory, 2019, 65, 5905-5924.	2.4	5

#	Article	IF	Citations
19	Quantum Log-Approximate-Rank Conjecture is Also False. , 2019, , .		5
20	Contextuality in multipartite pseudo-telepathy graph games. Journal of Computer and System Sciences, 2020, 107, 156-165.	1.2	5
21	A Hypothesis Testing Approach for Communication Over Entanglement-Assisted Compound Quantum Channel. IEEE Transactions on Information Theory, 2019, 65, 2623-2636.	2.4	4
22	On the rectilinear crossing number of complete uniform hypergraphs. Computational Geometry: Theory and Applications, 2017, 61, 38-47.	0.5	3
23	Secure Communication Over Fully Quantum Gelâ€™fand-Pinsker Wiretap Channel. IEEE Transactions on Information Theory, 2020, 66, 5548-5566.	2.4	2
24	One-Shot Quantum State Redistribution and Quantum Markov Chains. , 2021, , .		2
25	Sample-efficient learning of quantum many-body systems. , 2020, , .		2
26	Expected Communication Cost of Distributed Quantum Tasks. IEEE Transactions on Information Theory, 2018, 64, 7395-7423.	2.4	1
27	Noisy Quantum State Redistribution With Promise and the Alpha-Bit. IEEE Transactions on Information Theory, 2020, 66, 7772-7786.	2.4	1
28	On the Compression of Messages in the Multi-Party Setting. IEEE Transactions on Information Theory, 2020, 66, 2091-2114.	2.4	1
29	Incompressibility of Classical Distributions. IEEE Transactions on Information Theory, 2022, 68, 1758-1771.	2.4	1
30	Expected Communication Cost of Distributed Quantum Tasks. , 2018, , .		0
31	Second-Order Characterizations via Partial Smoothing. , 2019, , .		0
32	Entanglement Subvolume Law for 2D Frustration-Free Spin Systems. Communications in Mathematical Physics, 0, , .	2.2	0