

Fernando Gsl Brandão

List of Publications by Year in descending order

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Models of Quantum Complexity Growth. PRX Quantum, 2021, 2, .	9.2	42
2	Clustering of Conditional Mutual Information for Quantum Gibbs States above a Threshold Temperature. Physical Review Letters, 2020, 124, 220601.	7.8	33
3	Adversarial Hypothesis Testing and a Quantum Stein's Lemma for Restricted Measurements. IEEE Transactions on Information Theory, 2020, 66, 5037-5054.	2.4	10
4	Quantum Error Correcting Codes in Eigenstates of Translation-Invariant Spin Chains. Physical Review Letters, 2019, 123, 110502.	7.8	30
5	Thermodynamic Capacity of Quantum Processes. Physical Review Letters, 2019, 122, 200601.	7.8	27
6	Quantum Approximate Markov Chains are Thermal. Communications in Mathematical Physics, 2019, 370, 117-149.	2.2	20
7	Quantum supremacy using a programmable superconducting processor. Nature, 2019, 574, 505-510.	27.8	4,148
8	Finite Correlation Length Implies Efficient Preparation of Quantum Thermal States. Communications in Mathematical Physics, 2019, 365, 1-16.	2.2	41
9	Three-Dimensional Color Code Thresholds via Statistical-Mechanical Mapping. Physical Review Letters, 2018, 120, 180501.	7.8	34
10	Quantum de Finetti Theorems Under Local Measurements with Applications. Communications in Mathematical Physics, 2017, 353, 469-506.	2.2	17
11	Thermalization and Return to Equilibrium on Finite Quantum Lattice Systems. Physical Review Letters, 2017, 118, 140601.	7.8	38
12	Quantum Speed-Ups for Solving Semidefinite Programs. , 2017, , .		68
13	Amplifying the Randomness of Weak Sources Correlated With Devices. IEEE Transactions on Information Theory, 2017, 63, 7592-7611.	2.4	7
14	Randomness Amplification under Minimal Fundamental Assumptions on the Devices. Physical Review Letters, 2016, 117, 230501.	7.8	26
15	Quantum Gibbs Samplers: The Commuting Case. Communications in Mathematical Physics, 2016, 344, 915-957.	2.2	52
16	Local Random Quantum Circuits are Approximate Polynomial-Designs. Communications in Mathematical Physics, 2016, 346, 397-434.	2.2	174
17	Efficient Quantum Pseudorandomness. Physical Review Letters, 2016, 116, 170502.	7.8	35
18	Product-State Approximations to Quantum States. Communications in Mathematical Physics, 2016, 342, 47-80.	2.2	19

#	ARTICLE	IF	CITATIONS
19	Area law for fixed points of rapidly mixing dissipative quantum systems. <i>Journal of Mathematical Physics</i> , 2015, 56, .	1.1	18
20	The second laws of quantum thermodynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3275-3279.	7.1	471
21	Exponential Decay of Correlations Implies Area Law. <i>Communications in Mathematical Physics</i> , 2015, 333, 761-798.	2.2	71
22	Adversarial hypothesis testing and a quantum stein's lemma for restricted measurements. , 2014, , .		2
23	An area law for entanglement from exponential decay of correlations. <i>Nature Physics</i> , 2013, 9, 721-726.	16.7	90
24	Product-state approximations to quantum ground states. , 2013, , .		19
25	Entanglement Cost of Quantum Channels. <i>IEEE Transactions on Information Theory</i> , 2013, 59, 6779-6795.	2.4	51
26	A Smooth Entropy Approach to Quantum Hypothesis Testing and the Classical Capacity of Quantum Channels. <i>IEEE Transactions on Information Theory</i> , 2013, 59, 8014-8026.	2.4	28
27	Resource Theory of Quantum States Out of Thermal Equilibrium. <i>Physical Review Letters</i> , 2013, 111, 250404.	7.8	437
28	Quantum de finetti theorems under local measurements with applications. , 2013, , .		24
29	Hypercontractivity, sum-of-squares proofs, and their applications. , 2012, , .		84
30	Detection of Multiparticle Entanglement: Quantifying the Search for Symmetric Extensions. <i>Physical Review Letters</i> , 2012, 109, 160502.	7.8	17
31	Entangled Inputs Cannot Make Imperfect Quantum Channels Perfect. <i>Physical Review Letters</i> , 2011, 106, 230502.	7.8	15
32	One-Shot Rates for Entanglement Manipulation Under Non-entangling Maps. <i>IEEE Transactions on Information Theory</i> , 2011, 57, 1754-1760.	2.4	84
33	A quasipolynomial-time algorithm for the quantum separability problem. , 2011, , .		24
34	A Reversible Theory of Entanglement and its Relation to the Second Law. <i>Communications in Mathematical Physics</i> , 2010, 295, 829-851.	2.2	58
35	A Generalization of Quantum Stein's Lemma. <i>Communications in Mathematical Physics</i> , 2010, 295, 791-828.	2.2	79
36	Quantum many-body phenomena in coupled cavity arrays. <i>Laser and Photonics Reviews</i> , 2008, 2, 527-556.	8.7	399

#	ARTICLE	IF	CITATIONS
37	Entanglement theory and the second law of thermodynamics. <i>Nature Physics</i> , 2008, 4, 873-877.	16.7	141
38	Strongly Interacting Polaritons in Coupled Arrays of Cavities. , 2007, , .		3
39	Quantitative entanglement witnesses. <i>New Journal of Physics</i> , 2007, 9, 46-46.	2.9	176
40	Remarks on the Equivalence of Full Additivity and Monotonicity for the Entanglement Cost. <i>Open Systems and Information Dynamics</i> , 2007, 14, 333-339.	1.2	8
41	Entanglement quantifiers, entanglement crossover and phase transitions. <i>New Journal of Physics</i> , 2006, 8, 260-260.	2.9	3
42	Entanglement and quantum order parameters. <i>New Journal of Physics</i> , 2005, 7, 254-254.	2.9	14
43	Separable Multipartite Mixed States: Operational Asymptotically Necessary and Sufficient Conditions. <i>Physical Review Letters</i> , 2004, 93, 220503.	7.8	57