

Fernando Gsl Brando

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.

42
papers

4,048
citations

21
h-index

44
g-index

44
ext. papers

5,734
ext. citations

6.2
avg, IF

5.55
L-index

#	Paper	IF	Citations
42	Quantum supremacy using a programmable superconducting processor. <i>Nature</i> , 2019 , 574, 505-510	50.4	1760
41	The second laws of quantum thermodynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3275-9	11.5	354
40	Quantum many-body phenomena in coupled cavity arrays. <i>Laser and Photonics Reviews</i> , 2008 , 2, 527-556	3	354
39	Resource theory of quantum states out of thermal equilibrium. <i>Physical Review Letters</i> , 2013 , 111, 250404	4.4	338
38	Quantitative entanglement witnesses. <i>New Journal of Physics</i> , 2007 , 9, 46-46	2.9	160
37	Entanglement theory and the second law of thermodynamics. <i>Nature Physics</i> , 2008 , 4, 873-877	16.2	114
36	Local Random Quantum Circuits are Approximate Polynomial-Designs. <i>Communications in Mathematical Physics</i> , 2016 , 346, 397-434	2	111
35	One-Shot Rates for Entanglement Manipulation Under Non-entangling Maps. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 1754-1760	2.8	70
34	An area law for entanglement from exponential decay of correlations. <i>Nature Physics</i> , 2013 , 9, 721-726	16.2	68
33	A Generalization of Quantum Stein's Lemma. <i>Communications in Mathematical Physics</i> , 2010 , 295, 791-828	2	64
32	Exponential Decay of Correlations Implies Area Law. <i>Communications in Mathematical Physics</i> , 2015 , 333, 761-798	2	54
31	Hypercontractivity, sum-of-squares proofs, and their applications 2012 ,		51
30	Separable multipartite mixed states: operational asymptotically necessary and sufficient conditions. <i>Physical Review Letters</i> , 2004 , 93, 220503	7.4	51
29	Entanglement Cost of Quantum Channels. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 6779-6795	2.8	44
28	A Reversible Theory of Entanglement and its Relation to the Second Law. <i>Communications in Mathematical Physics</i> , 2010 , 295, 829-851	2	44
27	Quantum Speed-Ups for Solving Semidefinite Programs 2017 ,		41
26	Quantum Gibbs Samplers: The Commuting Case. <i>Communications in Mathematical Physics</i> , 2016 , 344, 915-957	2	30

25	Thermalization and Return to Equilibrium on Finite Quantum Lattice Systems. <i>Physical Review Letters</i> , 2017 , 118, 140601	7.4	28
24	Efficient Quantum Pseudorandomness. <i>Physical Review Letters</i> , 2016 , 116, 170502	7.4	27
23	Three-Dimensional Color Code Thresholds via Statistical-Mechanical Mapping. <i>Physical Review Letters</i> , 2018 , 120, 180501	7.4	25
22	Finite Correlation Length Implies Efficient Preparation of Quantum Thermal States. <i>Communications in Mathematical Physics</i> , 2019 , 365, 1-16	2	22
21	A quasipolynomial-time algorithm for the quantum separability problem 2011 ,		18
20	Randomness Amplification under Minimal Fundamental Assumptions on the Devices. <i>Physical Review Letters</i> , 2016 , 117, 230501	7.4	18
19	Quantum Error Correcting Codes in Eigenstates of Translation-Invariant Spin Chains. <i>Physical Review Letters</i> , 2019 , 123, 110502	7.4	17
18	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	2.8	17
17	Quantum de finetti theorems under local measurements with applications 2013 ,		17
16	Thermodynamic Capacity of Quantum Processes. <i>Physical Review Letters</i> , 2019 , 122, 200601	7.4	15
15	Detection of multiparticle entanglement: quantifying the search for symmetric extensions. <i>Physical Review Letters</i> , 2012 , 109, 160502	7.4	15
14	Quantum de Finetti Theorems Under Local Measurements with Applications. <i>Communications in Mathematical Physics</i> , 2017 , 353, 469-506	2	14
13	Area law for fixed points of rapidly mixing dissipative quantum systems. <i>Journal of Mathematical Physics</i> , 2015 , 56, 102202	1.2	13
12	Entangled inputs cannot make imperfect quantum channels perfect. <i>Physical Review Letters</i> , 2011 , 106, 230502	7.4	13
11	Product-state approximations to quantum ground states 2013 ,		12
10	Entanglement and quantum order parameters. <i>New Journal of Physics</i> , 2005 , 7, 254-254	2.9	12
9	Clustering of Conditional Mutual Information for Quantum Gibbs States above a Threshold Temperature. <i>Physical Review Letters</i> , 2020 , 124, 220601	7.4	10
8	Product-State Approximations to Quantum States. <i>Communications in Mathematical Physics</i> , 2016 , 342, 47-80	2	10

7	Models of Quantum Complexity Growth. <i>PRX Quantum</i> , 2021 , 2,	6.1	10
6	Quantum Approximate Markov Chains are Thermal. <i>Communications in Mathematical Physics</i> , 2019 , 370, 117-149	2	8
5	Remarks on the Equivalence of Full Additivity and Monotonicity for the Entanglement Cost. <i>Open Systems and Information Dynamics</i> , 2007 , 14, 333-339	0.4	8
4	. <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 7592-7611	2.8	3
3	Adversarial Hypothesis Testing and a Quantum Stein's Lemma for Restricted Measurements. <i>IEEE Transactions on Information Theory</i> , 2020 , 66, 5037-5054	2.8	3
2	Entanglement quantifiers, entanglement crossover and phase transitions. <i>New Journal of Physics</i> , 2006 , 8, 260-260	2.9	2
1	Adversarial hypothesis testing and a quantum stein's lemma for restricted measurements 2014 ,		1