

Fernando Gsl Brando

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.

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 | Models of Quantum Complexity Growth. <i>PRX Quantum</i> , 2021 , 2, | 6.1 | 10 |
| 41 | Clustering of Conditional Mutual Information for Quantum Gibbs States above a Threshold Temperature. <i>Physical Review Letters</i> , 2020 , 124, 220601 | 7.4 | 10 |
| 40 | 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 |
| 39 | Quantum Error Correcting Codes in Eigenstates of Translation-Invariant Spin Chains. <i>Physical Review Letters</i> , 2019 , 123, 110502 | 7.4 | 17 |
| 38 | Thermodynamic Capacity of Quantum Processes. <i>Physical Review Letters</i> , 2019 , 122, 200601 | 7.4 | 15 |
| 37 | Quantum Approximate Markov Chains are Thermal. <i>Communications in Mathematical Physics</i> , 2019 , 370, 117-149 | 2 | 8 |
| 36 | Quantum supremacy using a programmable superconducting processor. <i>Nature</i> , 2019 , 574, 505-510 | 50.4 | 1760 |
| 35 | Finite Correlation Length Implies Efficient Preparation of Quantum Thermal States. <i>Communications in Mathematical Physics</i> , 2019 , 365, 1-16 | 2 | 22 |
| 34 | Three-Dimensional Color Code Thresholds via Statistical-Mechanical Mapping. <i>Physical Review Letters</i> , 2018 , 120, 180501 | 7.4 | 25 |
| 33 | Quantum de Finetti Theorems Under Local Measurements with Applications. <i>Communications in Mathematical Physics</i> , 2017 , 353, 469-506 | 2 | 14 |
| 32 | Thermalization and Return to Equilibrium on Finite Quantum Lattice Systems. <i>Physical Review Letters</i> , 2017 , 118, 140601 | 7.4 | 28 |
| 31 | Quantum Speed-Ups for Solving Semidefinite Programs 2017 , | | 41 |
| 30 | . <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 7592-7611 | 2.8 | 3 |
| 29 | Efficient Quantum Pseudorandomness. <i>Physical Review Letters</i> , 2016 , 116, 170502 | 7.4 | 27 |
| 28 | Product-State Approximations to Quantum States. <i>Communications in Mathematical Physics</i> , 2016 , 342, 47-80 | 2 | 10 |
| 27 | Randomness Amplification under Minimal Fundamental Assumptions on the Devices. <i>Physical Review Letters</i> , 2016 , 117, 230501 | 7.4 | 18 |
| 26 | Quantum Gibbs Samplers: The Commuting Case. <i>Communications in Mathematical Physics</i> , 2016 , 344, 915-957 | 2 | 30 |

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| 25 | Local Random Quantum Circuits are Approximate Polynomial-Designs. <i>Communications in Mathematical Physics</i> , 2016 , 346, 397-434 | 2 | 111 |
| 24 | Exponential Decay of Correlations Implies Area Law. <i>Communications in Mathematical Physics</i> , 2015 , 333, 761-798 | 2 | 54 |
| 23 | Area law for fixed points of rapidly mixing dissipative quantum systems. <i>Journal of Mathematical Physics</i> , 2015 , 56, 102202 | 1.2 | 13 |
| 22 | 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 |
| 21 | Adversarial hypothesis testing and a quantum stein's lemma for restricted measurements 2014 , | | 1 |
| 20 | An area law for entanglement from exponential decay of correlations. <i>Nature Physics</i> , 2013 , 9, 721-726 | 16.2 | 68 |
| 19 | Product-state approximations to quantum ground states 2013 , | | 12 |
| 18 | Entanglement Cost of Quantum Channels. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 6779-6795 | 2.8 | 44 |
| 17 | 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 |
| 16 | Resource theory of quantum states out of thermal equilibrium. <i>Physical Review Letters</i> , 2013 , 111, 250404 | 4.4 | 338 |
| 15 | Quantum de finetti theorems under local measurements with applications 2013 , | | 17 |
| 14 | Hypercontractivity, sum-of-squares proofs, and their applications 2012 , | | 51 |
| 13 | Detection of multiparticle entanglement: quantifying the search for symmetric extensions. <i>Physical Review Letters</i> , 2012 , 109, 160502 | 7.4 | 15 |
| 12 | Entangled inputs cannot make imperfect quantum channels perfect. <i>Physical Review Letters</i> , 2011 , 106, 230502 | 7.4 | 13 |
| 11 | One-Shot Rates for Entanglement Manipulation Under Non-entangling Maps. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 1754-1760 | 2.8 | 70 |
| 10 | A quasipolynomial-time algorithm for the quantum separability problem 2011 , | | 18 |
| 9 | A Reversible Theory of Entanglement and its Relation to the Second Law. <i>Communications in Mathematical Physics</i> , 2010 , 295, 829-851 | 2 | 44 |
| 8 | A Generalization of Quantum Stein's Lemma. <i>Communications in Mathematical Physics</i> , 2010 , 295, 791-828 | | 64 |

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| 7 | Entanglement theory and the second law of thermodynamics. <i>Nature Physics</i> , 2008 , 4, 873-877 | 16.2 | 114 |
| 6 | Quantum many-body phenomena in coupled cavity arrays. <i>Laser and Photonics Reviews</i> , 2008 , 2, 527-556 | 3 | 354 |
| 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 | Quantitative entanglement witnesses. <i>New Journal of Physics</i> , 2007 , 9, 46-46 | 2.9 | 160 |
| 3 | Entanglement quantifiers, entanglement crossover and phase transitions. <i>New Journal of Physics</i> , 2006 , 8, 260-260 | 2.9 | 2 |
| 2 | Entanglement and quantum order parameters. <i>New Journal of Physics</i> , 2005 , 7, 254-254 | 2.9 | 12 |
| 1 | Separable multipartite mixed states: operational asymptotically necessary and sufficient conditions. <i>Physical Review Letters</i> , 2004 , 93, 220503 | 7.4 | 51 |