

Diogo O Soares-Pinto

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,627
citations

361413

20
h-index

289244

40
g-index

48
all docs

48
docs citations

48
times ranked

1186
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Discord Determines the Interferometric Power of Quantum States. <i>Physical Review Letters</i> , 2014, 112, .	7.8	204
2	Generalized Geometric Quantum Speed Limits. <i>Physical Review X</i> , 2016, 6, .	8.9	147
3	Environment-Induced Sudden Transition in Quantum Discord Dynamics. <i>Physical Review Letters</i> , 2011, 107, 140403.	7.8	137
4	Observation of Time-Invariant Coherence in a Nuclear Magnetic Resonance Quantum Simulator. <i>Physical Review Letters</i> , 2016, 117, 160402.	7.8	87
5	Geometric lower bound for a quantum coherence measure. <i>Physical Review A</i> , 2015, 91, .	2.5	84
6	Computational speed-up with a single qudit. <i>Scientific Reports</i> , 2015, 5, 14671.	3.3	83
7	Experimentally Witnessing the Quantumness of Correlations. <i>Physical Review Letters</i> , 2011, 107, 070501.	7.8	79
8	Experimental determination of thermal entanglement in spin clusters using magnetic susceptibility measurements. <i>Physical Review B</i> , 2008, 77, .	3.2	77
9	Nonclassical correlation in NMR quadrupolar systems. <i>Physical Review A</i> , 2010, 81, .	2.5	75
10	Experimental demonstration of information to energy conversion in a quantum system at the Landauer limit. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20150813.	2.1	75
11	Observation of Environment-Induced Double Sudden Transitions in Geometric Quantum Correlations. <i>Physical Review Letters</i> , 2013, 111, 250401.	7.8	68
12	Distributed correlations and information flows within a hybrid multipartite quantum-classical system. <i>Physical Review A</i> , 2015, 92, .	2.5	49
13	Entanglement and Bell's inequality violation above room temperature in metal carboxylates. <i>Physical Review B</i> , 2009, 79, .	3.2	41
14	Generalized simulated annealing applied to protein folding studies. <i>Journal of Computational Chemistry</i> , 2006, 27, 1142-1155.	3.3	37
15	Entanglement temperature in molecular magnets composed of S-spin dimers. <i>Europhysics Letters</i> , 2009, 87, 40008.	2.0	26
16	Coherence orders, decoherence, and quantum metrology. <i>Physical Review A</i> , 2018, 98, .	2.5	25
17	Experimental realization of the Yang-Baxter Equation via NMR interferometry. <i>Scientific Reports</i> , 2016, 6, 20789.	3.3	23
18	Enabling quantum non-Markovian dynamics by injection of classical colored noise. <i>Physical Review A</i> , 2017, 95, .	2.5	23

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19	Elephant quantum walk. <i>Physical Review A</i> , 2018, 97, .	2.5	23
20	Brownian dynamics, time-averaging and colored noise. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 365, 289-299.	2.6	20
21	On the quantumness of correlations in nuclear magnetic resonance. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 4821-4836.	3.4	20
22	Equivalence between Redfield- and master-equation approaches for a time-dependent quantum system and coherence control. <i>Physical Review A</i> , 2011, 83, .	2.5	17
23	Thermal entanglement and teleportation in a dipolar interacting system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 1571-1576.	2.1	17
24	Time as a consequence of internal coherence. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190470.	2.1	15
25	On exact time averages of a massive Poisson particle. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P06010.	2.3	14
26	Carboxylate-based molecular magnet: One path toward achieving stable quantum correlations at room temperature. <i>Europhysics Letters</i> , 2016, 113, 40004.	2.0	14
27	Quantum thermodynamics in adiabatic open systems and its trapped-ion experimental realization. <i>Npj Quantum Information</i> , 2020, 6, .	6.7	14
28	Exact time-averaged thermal conductance for small systems: Comparison between direct calculation and Green-Kubo formalism. <i>Physical Review E</i> , 2009, 79, 051116.	2.1	13
29	Exact time-average distribution for a stationary non-Markovian massive Brownian particle coupled to two heat baths. <i>Physical Review E</i> , 2008, 77, 011103.	2.1	12
30	Exact nonequilibrium work generating function for a small classical system. <i>Physical Review E</i> , 2010, 82, 021112.	2.1	12
31	Quantifying quantum reference frames in composed systems: Local, global, and mutual asymmetries. <i>Physical Review A</i> , 2019, 99, .	2.5	12
32	There is more to quantum interferometry than entanglement. <i>Physical Review A</i> , 2017, 95, .	2.5	11
33	Finite-size analysis of a two-dimensional Ising model within a nonextensive approach. <i>Physical Review E</i> , 2009, 80, 051101.	2.1	10
34	Enhancing quantum transport efficiency by tuning non-Markovian dephasing. <i>Physical Review A</i> , 2020, 101, .	2.5	9
35	QUANTUM STATE TOMOGRAPHY AND QUANTUM LOGICAL OPERATIONS IN A THREE QUBITS NMR QUADRUPOLEAR SYSTEM. <i>International Journal of Quantum Information</i> , 2012, 10, 1250016.	1.1	8
36	Quantifying resources for the Page-Wootters mechanism: Shared asymmetry as relative entropy of entanglement. <i>Physical Review A</i> , 2021, 103, .	2.5	7

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37	Normalization procedure for relaxation studies in NMR quantum information processing. Quantum Information Processing, 2010, 9, 575-589.	2.2	6
38	Influence of the external pressure on the quantum correlations of molecular magnets. Europhysics Letters, 2017, 117, 20004.	2.0	6
39	Promoting quantum correlations in deterministic quantum computation with a one-qubit model via postselection. Physical Review A, 2021, 103, .	2.5	6
40	WRITING ELECTRONIC FERROMAGNETIC STATES IN A HIGH-TEMPERATURE PARAMAGNETIC NUCLEAR SPIN SYSTEM. International Journal of Quantum Information, 2011, 09, 1047-1056.	1.1	5
41	Witnessing spin-orbit thermal entanglement in rare-earth ions. Europhysics Letters, 2013, 103, 40002.	2.0	5
42	Phase diagram of a 2D Ising model within a nonextensive approach. European Physical Journal B, 2008, 62, 337-340.	1.5	3
43	Effect of platykurtic and leptokurtic distributions in the random-field Ising model: Mean-field approach. Physical Review E, 2009, 80, 011143.	2.1	3
44	Spin waves in a complex magnetic system: a nonextensive approach. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P08011-P08011.	2.3	2
45	Wigner's friend and the quasi-ideal clock. Physical Review A, 2021, 103, .	2.5	2
46	Non-Markovianity, entropy production, and Jarzynski equality. Physical Review E, 2021, 103, 022108.	2.1	1
47	O Interferômetro de Mach-Zehnder e a Escolha Retardada Quântica. Revista Brasileira De Ensino De Física, 0, 43, .	0.2	0
48	O isomorfismo inesperado entre um sistema de bilhar e um algoritmo quântico. Revista Brasileira De Ensino De Física, 0, 43, .	0.2	0