

Alexandre M Souza

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,393
citations

304743

22
h-index

206112

48
g-index

48
all docs

48
docs citations

48
times ranked

1799
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum simulation of the two-site Hubbard Hamiltonian. <i>Physics Open</i> , 2021, 6, 100053.	1.5	2
2	PFG NMR time-dependent diffusion coefficient analysis of confined emulsion: Post drainage phase conformation. <i>Journal of Petroleum Science and Engineering</i> , 2021, 199, 108287.	4.2	2
3	Process tomography of robust dynamical decoupling with superconducting qubits. <i>Quantum Information Processing</i> , 2021, 20, 1.	2.2	8
4	Experimental Validation of Fully Quantum Fluctuation Theorems Using Dynamic Bayesian Networks. <i>Physical Review Letters</i> , 2021, 127, 180603.	7.8	19
5	Optimizing NMR quantum information processing via generalized transitionless quantum driving. <i>Europhysics Letters</i> , 2020, 129, 30008.	2.0	15
6	Reservoir engineering for maximally efficient quantum engines. <i>Physical Review Research</i> , 2020, 2, .	3.6	9
7	Multi-exponential Analysis of Water NMR Spin Relaxation in Porosity/Permeability-Controlled Sintered Glass. <i>Applied Magnetic Resonance</i> , 2019, 50, 211-225.	1.2	5
8	Experimental implementation of an NMR NOON state thermometer. <i>Quantum Information Processing</i> , 2019, 18, 1.	2.2	3
9	Efficiency of a Quantum Otto Heat Engine Operating under a Reservoir at Effective Negative Temperatures. <i>Physical Review Letters</i> , 2019, 122, 240602.	7.8	90
10	Reversing the direction of heat flow using quantum correlations. <i>Nature Communications</i> , 2019, 10, 2456.	12.8	97
11	Enhanced NMR relaxation of fluids confined to porous media: A proposed theory and experimental tests. <i>Physical Review E</i> , 2019, 99, 042901.	2.1	3
12	Experimental Characterization of a Spin Quantum Heat Engine. <i>Physical Review Letters</i> , 2019, 123, 240601.	7.8	204
13	Intrinsic bounds of a two-qudit random evolution. <i>Physical Review A</i> , 2018, 97, .	2.5	3
14	Reliability of Digitized Quantum Annealing and the Decay of Entanglement. <i>Annalen Der Physik</i> , 2018, 530, 1800007.	2.4	2
15	NMR Contributions to the Study of Quantum Correlations. <i>Quantum Science and Technology</i> , 2017, , 517-542.	2.6	2
16	Experimental Rectification of Entropy Production by Maxwell's Demon in a Quantum System. <i>Physical Review Letters</i> , 2016, 117, 240502.	7.8	106
17	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
18	Observation of Time-Invariant Coherence in a Nuclear Magnetic Resonance Quantum Simulator. <i>Physical Review Letters</i> , 2016, 117, 160402.	7.8	87

#	ARTICLE	IF	CITATIONS
37	WRITING ELECTRONIC FERROMAGNETIC STATES IN A HIGH-TEMPERATURE PARAMAGNETIC NUCLEAR SPIN SYSTEM. <i>International Journal of Quantum Information</i> , 2011, 09, 1047-1056.	1.1	5
38	A scattering quantum circuit for measuring Bell's time inequality: a nuclear magnetic resonance demonstration using maximally mixed states. <i>New Journal of Physics</i> , 2011, 13, 053023.	2.9	64
39	Environment-Induced Sudden Transition in Quantum Discord Dynamics. <i>Physical Review Letters</i> , 2011, 107, 140403.	7.8	137
40	Robust Dynamical Decoupling for Quantum Computing and Quantum Memory. <i>Physical Review Letters</i> , 2011, 106, 240501.	7.8	191
41	Synthesis, structures and magnetic properties of three metal-organic frameworks containing manganese(II). <i>Transition Metal Chemistry</i> , 2010, 35, 779-786.	1.4	9
42	Normalization procedure for relaxation studies in NMR quantum information processing. <i>Quantum Information Processing</i> , 2010, 9, 575-589.	2.2	6
43	Entanglement and Bell's inequality violation above room temperature in metal carboxylates. <i>Physical Review B</i> , 2009, 79, .	3.2	41
44	Finite-size analysis of a two-dimensional Ising model within a nonextensive approach. <i>Physical Review E</i> , 2009, 80, 051101.	2.1	10
45	Entanglement temperature in molecular magnets composed of S-spin dimers. <i>Europhysics Letters</i> , 2009, 87, 40008.	2.0	26
46	Experimental determination of thermal entanglement in spin clusters using magnetic susceptibility measurements. <i>Physical Review B</i> , 2008, 77, .	3.2	77
47	NMR analog of Bell's inequalities violation test. <i>New Journal of Physics</i> , 2008, 10, 033020.	2.9	22
48	Specific heat of clustered low dimensional magnetic systems. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 446203.	1.8	2