

Alan Costa dos Santos

List of Publications by Year in descending order

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all docs

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36
times ranked

356
citing authors

#	ARTICLE	IF	CITATIONS
1	Superadiabatic Controlled Evolutions and Universal Quantum Computation. Scientific Reports, 2015, 5, 15775.	3.3	100
2	Stable adiabatic quantum batteries. Physical Review E, 2019, 100, 032107.	2.1	81
3	Shortcut to adiabatic gate teleportation. Physical Review A, 2016, 93, .	2.5	71
4	Non-Markovian effects on charging and self-discharging process of quantum batteries. New Journal of Physics, 2020, 22, 083007.	2.9	52
5	Stable and charge-switchable quantum batteries. Physical Review E, 2020, 101, 062114.	2.1	49
6	Entanglement, coherence, and charging process of quantum batteries. Physical Review E, 2020, 102, 052109.	2.1	46
7	Experimental implementation of generalized transitionless quantum driving. Optics Letters, 2018, 43, 3136.	3.3	34
8	Energetic Cost of Superadiabatic Quantum Computation. Frontiers in ICT, 2016, 3, .	3.6	33
9	Generalized shortcuts to adiabaticity and enhanced robustness against decoherence. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 025301.	2.1	32
10	Quantum advantage of two-level batteries in the self-discharging process. Physical Review E, 2021, 103, 042118.	2.1	25
11	Quantum battery based on quantum discord at room temperature. Quantum Science and Technology, 2022, 7, 025020.	5.8	19
12	Optical simulation of a quantum thermal machine. Physical Review A, 2019, 100, .	2.5	17
13	Optimizing NMR quantum information processing via generalized transitionless quantum driving. Europhysics Letters, 2020, 129, 30008.	2.0	15
14	Quantum thermodynamics in adiabatic open systems and its trapped-ion experimental realization. Npj Quantum Information, 2020, 6, .	6.7	14
15	Quantum gates by inverse engineering of a Hamiltonian. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 015501.	1.5	12
16	Entanglement-enhanced quantum rectification. Physical Review A, 2022, 105, .	2.5	11
17	Adiabatic quantum games and phase-transition-like behavior between optimal strategies. Quantum Information Processing, 2018, 17, 1.	2.2	10
18	Charging power and stability of always-on transitionless driven quantum batteries. Europhysics Letters, 2021, 136, 23001.	2.0	10

#	ARTICLE	IF	CITATIONS
19	Enhancing self-discharging process with disordered quantum batteries. <i>Physical Review E</i> , 2022, 105, .	2.1	10
20	Adiabatic quantum dynamics under decoherence in a controllable trapped-ion setup. <i>Physical Review A</i> , 2019, 99, .	2.5	7
21	Shortening time scale to reduce thermal effects in quantum transistors. <i>Scientific Reports</i> , 2019, 9, 10470.	3.3	6
22	Entanglement and coherence in quantum prisoner's dilemma. <i>Quantum Information Processing</i> , 2020, 19, 1.	2.2	6
23	Generalized transitionless quantum driving for open quantum systems. <i>Physical Review A</i> , 2021, 104, .	2.5	6
24	Quantum Wheatstone Bridge. <i>Physical Review Letters</i> , 2022, 128, .	7.8	6
25	Generating long-lived entangled states with free-space collective spontaneous emission. <i>Physical Review A</i> , 2022, 105, .	2.5	5
26	O Computador Quântico da IBM e o IBM Quantum Experience. <i>Revista Brasileira De Ensino De Fisica</i> , 2016, 39, .	0.2	4
27	Validation of quantum adiabaticity through non-inertial frames and its trapped-ion realization. <i>Scientific Reports</i> , 2019, 9, 10449.	3.3	4
28	Sufficient conditions for adiabaticity in open quantum systems. <i>Physical Review A</i> , 2020, 102, .	2.5	4
29	Quantum adiabatic brachistochrone for open systems. <i>Physical Review A</i> , 2021, 103, .	2.5	4
30	Exergy of passive states: Waste energy after ergotropy extraction. <i>Physical Review E</i> , 2021, 104, 034134.	2.1	3
31	Experimental observation of phase-transition-like behavior in an optical simulation of single-qubit game. <i>Quantum Information Processing</i> , 2020, 19, 1.	2.2	1
32	Experimental verification of the inertial theorem control protocols. <i>New Journal of Physics</i> , 0, , .	2.9	1
33	Algoritmos quânticos com IBMQ Experience: Algoritmo de Deutsch-Jozsa. <i>Revista Brasileira De Ensino De Fisica</i> , 0, 44, .	0.2	1
34	Sobre a Dinâmica de Partículas Carregadas em Campos Elétrico e Magnético. <i>Revista Brasileira De Ensino De Fisica</i> , 2016, 39, .	0.2	0
35	Quantum gates by adiabatic and superadiabatic probabilistic controlled evolutions. <i>Europhysics Letters</i> , 2021, 134, 50005.	2.0	0
36	Simulating single-spin dynamics on an IBM five-qubit chip. <i>Revista Brasileira De Ensino De Fisica</i> , 0, 42, .	0.2	0