

Alan Costa dos Santos

List of Publications by Year in descending order

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36
times ranked

356
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum battery based on quantum discord at room temperature. Quantum Science and Technology, 2022, 7, 025020.	5.8	19
2	Enhancing self-discharging process with disordered quantum batteries. Physical Review E, 2022, 105, .	2.1	10
3	Entanglement-enhanced quantum rectification. Physical Review A, 2022, 105, .	2.5	11
4	Generating long-lived entangled states with free-space collective spontaneous emission. Physical Review A, 2022, 105, .	2.5	5
5	Quantum Wheatstone Bridge. Physical Review Letters, 2022, 128, .	7.8	6
6	Quantum adiabatic brachistochrone for open systems. Physical Review A, 2021, 103, .	2.5	4
7	Quantum advantage of two-level batteries in the self-discharging process. Physical Review E, 2021, 103, 042118.	2.1	25
8	Quantum gates by adiabatic and superadiabatic probabilistic controlled evolutions. Europhysics Letters, 2021, 134, 50005.	2.0	0
9	Charging power and stability of always-on transitionless driven quantum batteries. Europhysics Letters, 2021, 136, 23001.	2.0	10
10	Exergy of passive states: Waste energy after ergotropy extraction. Physical Review E, 2021, 104, 034134.	2.1	3
11	Generalized transitionless quantum driving for open quantum systems. Physical Review A, 2021, 104, .	2.5	6
12	Entanglement and coherence in quantum prisoner's dilemma. Quantum Information Processing, 2020, 19, 1.	2.2	6
13	Quantum thermodynamics in adiabatic open systems and its trapped-ion experimental realization. Npj Quantum Information, 2020, 6, .	6.7	14
14	Experimental observation of phase-transition-like behavior in an optical simulation of single-qubit game. Quantum Information Processing, 2020, 19, 1.	2.2	1
15	Entanglement, coherence, and charging process of quantum batteries. Physical Review E, 2020, 102, 052109.	2.1	46
16	Sufficient conditions for adiabaticity in open quantum systems. Physical Review A, 2020, 102, .	2.5	4
17	Stable and charge-switchable quantum batteries. Physical Review E, 2020, 101, 062114.	2.1	49
18	Optimizing NMR quantum information processing via generalized transitionless quantum driving. Europhysics Letters, 2020, 129, 30008.	2.0	15

#	ARTICLE	IF	CITATIONS
19	Non-Markovian effects on charging and self-discharging process of quantum batteries. <i>New Journal of Physics</i> , 2020, 22, 083007.	2.9	52
20	Optical simulation of a quantum thermal machine. <i>Physical Review A</i> , 2019, 100, .	2.5	17
21	Shortening time scale to reduce thermal effects in quantum transistors. <i>Scientific Reports</i> , 2019, 9, 10470.	3.3	6
22	Validation of quantum adiabaticity through non-inertial frames and its trapped-ion realization. <i>Scientific Reports</i> , 2019, 9, 10449.	3.3	4
23	Stable adiabatic quantum batteries. <i>Physical Review E</i> , 2019, 100, 032107.	2.1	81
24	Adiabatic quantum dynamics under decoherence in a controllable trapped-ion setup. <i>Physical Review A</i> , 2019, 99, .	2.5	7
25	Quantum gates by inverse engineering of a Hamiltonian. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 015501.	1.5	12
26	Generalized shortcuts to adiabaticity and enhanced robustness against decoherence. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 025301.	2.1	32
27	Adiabatic quantum games and phase-transition-like behavior between optimal strategies. <i>Quantum Information Processing</i> , 2018, 17, 1.	2.2	10
28	Experimental implementation of generalized transitionless quantum driving. <i>Optics Letters</i> , 2018, 43, 3136.	3.3	34
29	Sobre a Dinâmica de Partículas Carregadas em Campos Elétrico e Magnético. <i>Revista Brasileira De Ensino De Física</i> , 2016, 39, .	0.2	0
30	O Computador Quântico da IBM e o IBM Quantum Experience. <i>Revista Brasileira De Ensino De Física</i> , 2016, 39, .	0.2	4
31	Energetic Cost of Superadiabatic Quantum Computation. <i>Frontiers in ICT</i> , 2016, 3, .	3.6	33
32	Shortcut to adiabatic gate teleportation. <i>Physical Review A</i> , 2016, 93, .	2.5	71
33	Superadiabatic Controlled Evolutions and Universal Quantum Computation. <i>Scientific Reports</i> , 2015, 5, 15775.	3.3	100
34	Experimental verification of the inertial theorem control protocols. <i>New Journal of Physics</i> , 0, , .	2.9	1
35	Simulating single-spin dynamics on an IBM five-qubit chip. <i>Revista Brasileira De Ensino De Física</i> , 0, 42, .	0.2	0
36	Algoritmos quânticos com IBMQ Experience: Algoritmo de Deutsch-Jozsa. <i>Revista Brasileira De Ensino De Física</i> , 0, 44, .	0.2	1