

Steve Campbell

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,074
citations

236925

25
h-index

243625

44
g-index

61
all docs

61
docs citations

61
times ranked

1208
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum speed limits: from Heisenberg's uncertainty principle to optimal quantum control. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 453001.	2.1	334
2	Trade-Off Between Speed and Cost in Shortcuts to Adiabaticity. Physical Review Letters, 2017, 118, 100601.	7.8	163
3	Shortcut to Adiabaticity in the Lipkin-Meshkov-Glick Model. Physical Review Letters, 2015, 114, 177206.	7.8	101
4	Stable adiabatic quantum batteries. Physical Review E, 2019, 100, 032107.	2.1	81
5	Cost of counterdiabatic driving and work output. Physical Review A, 2016, 94, .	2.5	73
6	System-environment correlations and Markovian embedding of quantum non-Markovian dynamics. Physical Review A, 2018, 98, .	2.5	71
7	Global quantum correlations in finite-size spin chains. New Journal of Physics, 2013, 15, 043033.	2.9	59
8	Orthogonality Catastrophe as a Consequence of the Quantum Speed Limit. Physical Review Letters, 2020, 124, 110601.	7.8	59
9	Criticality, factorization, and long-range correlations in the anisotropic X Y model. Physical Review A, 2013, 88, .	2.5	55
10	<i>In Situ</i> Thermometry of a Cold Fermi Gas via Dephasing Impurities. Physical Review Letters, 2020, 125, 080402.	7.8	54
11	Precision thermometry and the quantum speed limit. Quantum Science and Technology, 2018, 3, 025002.	5.8	50
12	Propagation of nonclassical correlations across a quantum spin chain. Physical Review A, 2011, 84, .	2.5	49
13	An efficient nonlinear Feshbach engine. New Journal of Physics, 2018, 20, 015005.	2.9	49
14	Collision models in open system dynamics: A versatile tool for deeper insights?. Europhysics Letters, 2021, 133, 60001.	2.0	47
15	Quenching small quantum gases: Genesis of the orthogonality catastrophe. Physical Review A, 2014, 90, .	2.5	45
16	Criticality revealed through quench dynamics in the Lipkin-Meshkov-Glick model. Physical Review B, 2016, 94, .	3.2	45
17	Action quantum speed limits. Physical Review A, 2021, 103, .	2.5	40
18	Multipartite nonlocality in a thermalized Ising spin chain. Physical Review A, 2010, 82, .	2.5	38

#	ARTICLE	IF	CITATIONS
19	Non-equilibrium steady-states of memoryless quantum collision models. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126576.	2.1	36
20	Correlation approach to work extraction from finite quantum systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 035501.	1.5	34
21	Energetic cost of quantum control protocols. <i>New Journal of Physics</i> , 2019, 21, 103048.	2.9	32
22	Robust multipartite entanglement generation via a collision model. <i>Physical Review A</i> , 2019, 99, .	2.5	32
23	Non-equilibrium thermodynamics of harmonically trapped bosons. <i>New Journal of Physics</i> , 2016, 18, 103035.	2.9	30
24	Global and local thermometry schemes in coupled quantum systems. <i>New Journal of Physics</i> , 2017, 19, 103003.	2.9	29
25	Entropy production and correlations in a controlled non-Markovian setting. <i>Physical Review A</i> , 2018, 98, .	2.5	29
26	GLOBAL QUANTUM CORRELATIONS IN THE ISING MODEL. <i>International Journal of Quantum Information</i> , 2011, 09, 1685-1699.	1.1	27
27	Characterizing multipartite symmetric Dicke states under the effects of noise. <i>New Journal of Physics</i> , 2009, 11, 073039.	2.9	24
28	Precursors of non-Markovianity. <i>New Journal of Physics</i> , 2019, 21, 053036.	2.9	24
29	Collisional unfolding of quantum Darwinism. <i>Physical Review A</i> , 2019, 99, .	2.5	24
30	Periodically refreshed baths to simulate open quantum many-body dynamics. <i>Physical Review B</i> , 2021, 104, .	3.2	24
31	Kibble-Zurek scaling in quantum speed limits for shortcuts to adiabaticity. <i>Physical Review Research</i> , 2020, 2, .	3.6	22
32	Effect of interparticle interaction in a free-oscillation atomic interferometer. <i>Physical Review A</i> , 2013, 87, .	2.5	20
33	Critical assessment of two-qubit post-Markovian master equations. <i>Physical Review A</i> , 2012, 85, .	2.5	18
34	Probing the environment of an inaccessible system by a qubit ancilla. <i>Physical Review A</i> , 2010, 81, .	2.5	17
35	Controllable Gaussian-Qubit Interface for Extremal Quantum State Engineering. <i>Physical Review Letters</i> , 2010, 104, 240501.	7.8	15
36	Diverging Quantum Speed Limits: A Herald of Classicality. <i>PRX Quantum</i> , 2021, 2, .	9.2	15

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37	Dissipative scheme to approach the boundary of two-qubit entangled mixed states. <i>Physical Review A</i> , 2009, 79, .	2.5	14
38	Full counting statistics approach to the quantum non-equilibrium Landauer bound. <i>New Journal of Physics</i> , 2017, 19, 103038.	2.9	14
39	Thermalization of Finite Many-Body Systems by a Collision Model. <i>Entropy</i> , 2019, 21, 1182.	2.2	14
40	Quantum Darwinism in a Composite System: Objectivity versus Classicality. <i>Entropy</i> , 2021, 23, 995.	2.2	13
41	Passing quantum correlations to qubits using any two-mode state. <i>Physical Review A</i> , 2009, 80, .	2.5	12
42	Equilibration and nonclassicality of a double-well potential. <i>Scientific Reports</i> , 2016, 6, 19730.	3.3	12
43	Fast and robust magnon transport in a spin chain. <i>New Journal of Physics</i> , 2021, 23, 033033.	2.9	12
44	Quantum Darwinism in a structured spin environment. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 416, 127675.	2.1	12
45	Counterdiabatic control in the impulse regime. <i>Physical Review A</i> , 2022, 105, .	2.5	12
46	Work statistics and symmetry breaking in an excited-state quantum phase transition. <i>Physical Review E</i> , 2021, 103, 032145.	2.1	11
47	Predominance of entanglement of formation over quantum discord under quantum channels. <i>Quantum Information Processing</i> , 2013, 12, 2623-2636.	2.2	10
48	Nonclassicality and criticality in symmetry-protected magnetic phases. <i>Physical Review B</i> , 2015, 91, .	3.2	10
49	Staff experiences of a reablement approach to care for older people in a regional Australian community: A qualitative study. <i>Health and Social Care in the Community</i> , 2021, 29, 685-693.	1.6	10
50	Structural change in multipartite entanglement sharing: A random matrix approach. <i>Physical Review A</i> , 2009, 80, .	2.5	9
51	Nonequilibrium quantum bounds to Landauer's principle: Tightness and effectiveness. <i>Physical Review A</i> , 2017, 96, .	2.5	7
52	Dynamics and asymptotics of correlations in a many-body localized system. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	7
53	Stochastic Collisional Quantum Thermometry. <i>Entropy</i> , 2021, 23, 1634.	2.2	7
54	Correlations, Information Backflow, and Objectivity in a Class of Pure Dephasing Models. <i>Entropy</i> , 2022, 24, 304.	2.2	6

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55	TELEPORTING BIPARTITE ENTANGLEMENT USING MAXIMALLY ENTANGLED MIXED CHANNELS. International Journal of Quantum Information, 2010, 08, 105-119.	1.1	4
56	Discrete and generalized phase space techniques in critical quantum spin chains. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 125932.	2.1	4
57	Characterization and properties of weakly optimal entanglement witnesses. Quantum Information and Computation, 2015, 15, 1109-1121.	0.3	3
58	Classical dissipative cost of quantum control. Physical Review A, 2022, 106, .	2.5	3
59	Spin-orbit coupling in the presence of strong atomic correlations. New Journal of Physics, 2020, 22, 013050.	2.9	2
60	Multipartite quantum and classical correlations in symmetric n-qubit mixed states. Quantum Information Processing, 2016, 15, 4599-4611.	2.2	1
61	Practice Summary: Mikesell's Implements a Scheduling Tool to Improve Operating Efficiency. Interfaces, 2019, 49, 227-230.	1.5	0