Steve Campbell

List of Publications by Year
in descending order

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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	Counterdiabatic control in the impulse regime. Physical Review A, 2022, 105, .	2.5	12
2	Correlations, Information Backflow, and Objectivity in a Class of Pure Dephasing Models. Entropy, 2022, 24, 304.	2.2	6
3	Classical dissipative cost of quantum control. Physical Review A, 2022, 106, .	2.5	3
4	Action quantum speed limits. Physical Review A, 2021, 103, .	2.5	40
5	Collision models in open system dynamics: A versatile tool for deeper insights?. Europhysics Letters, 2021, 133, 60001.	2.0	47
6	Staff experiences of a reablement approach to care for older people in a regional Australian community: A qualitative study. Health and Social Care in the Community, 2021, 29, 685-693.	1.6	10
7	Work statistics and symmetry breaking in an excited-state quantum phase transition. Physical Review E, 2021, 103, 032145.	2.1	11
8	Fast and robust magnon transport in a spin chain. New Journal of Physics, 2021, 23, 033033.	2.9	12
9	Quantum Darwinism in a Composite System: Objectivity versus Classicality. Entropy, 2021, 23, 995.	2.2	13
10	Periodically refreshed baths to simulate open quantum many-body dynamics. Physical Review B, 2021, 104, .	3.2	24
11	Quantum Darwinism in a structured spin environment. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 416, 127675.	2.1	12
12	Stochastic Collisional Quantum Thermometry. Entropy, 2021, 23, 1634.	2.2	7
13	Diverging Quantum Speed Limits: A Herald of Classicality. PRX Quantum, 2021, 2, .	9.2	15
14	InÂSitu Thermometry of a Cold Fermi Gas via Dephasing Impurities. Physical Review Letters, 2020, 125, 080402.	7.8	54
15	Orthogonality Catastrophe as a Consequence of the Quantum Speed Limit. Physical Review Letters, 2020, 124, 110601.	7.8	59
16	Spinâ€“orbit coupling in the presence of strong atomic correlations. New Journal of Physics, 2020, 22, 013050.	2.9	2
17	Non-equilibrium steady-states of memoryless quantum collision models. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126576.	2.1	36
18	Kibble-Zurek scaling in quantum speed limits for shortcuts to adiabaticity. Physical Review Research, 2020, 2, .	3.6	22

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19	Precursors of non-Markovianity. New Journal of Physics, 2019, 21, 053036.	2.9	24
20	Energetic cost of quantum control protocols. New Journal of Physics, 2019, 21, 103048.	2.9	32
21	Practice Summary: Mikesellâ€™s Implements a Scheduling Tool to Improve Operating Efficiency. Interfaces, 2019, 49, 227-230.	1.5	0
22	Stable adiabatic quantum batteries. Physical Review E, 2019, 100, 032107.	2.1	81
23	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
24	Collisional unfolding of quantum Darwinism. Physical Review A, 2019, 99, .	2.5	24
25	Thermalization of Finite Many-Body Systems by a Collision Model. Entropy, 2019, 21, 1182.	2.2	14
26	Robust multipartite entanglement generation via a collision model. Physical Review A, 2019, 99, .	2.5	32
27	An efficient nonlinear Feshbach engine. New Journal of Physics, 2018, 20, 015005.	2.9	49
28	Precision thermometry and the quantum speed limit. Quantum Science and Technology, 2018, 3, 025002.	5.8	50
29	System-environment correlations and Markovian embedding of quantum non-Markovian dynamics. Physical Review A, 2018, 98, .	2.5	71
30	Entropy production and correlations in a controlled non-Markovian setting. Physical Review A, 2018, 98, .	2.5	29
31	Trade-Off Between Speed and Cost in Shortcuts to Adiabaticity. Physical Review Letters, 2017, 118, 100601.	7.8	163
32	Nonequilibrium quantum bounds to Landauer's principle: Tightness and effectiveness. Physical Review A, 2017, 96, .	2.5	7
33	Global and local thermometry schemes in coupled quantum systems. New Journal of Physics, 2017, 19, 103003.	2.9	29
34	Quantum speed limits: from Heisenbergâ€™s uncertainty principle to optimal quantum control. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 453001.	2.1	334
35	Dynamics and asymptotics of correlations in a many-body localized system. European Physical Journal D, 2017, 71, 1.	1.3	7
36	Full counting statistics approach to the quantum non-equilibrium Landauer bound. New Journal of Physics, 2017, 19, 103038.	2.9	14

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37	Non-equilibrium thermodynamics of harmonically trapped bosons. New Journal of Physics, 2016, 18, 103035.	2.9	30
38	Equilibration and nonclassicality of a double-well potential. Scientific Reports, 2016, 6, 19730.	3.3	12
39	Multipartite quantum and classical correlations in symmetric n-qubit mixed states. Quantum Information Processing, 2016, 15, 4599-4611.	2.2	1
40	Cost of counterdiabatic driving and work output. Physical Review A, 2016, 94, .	2.5	73
41	Criticality revealed through quench dynamics in the Lipkin-Meshkov-Glick model. Physical Review B, 2016, 94, .	3.2	45
42	Correlation approach to work extraction from finite quantum systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 035501.	1.5	34
43	Nonclassicality and criticality in symmetry-protected magnetic phases. Physical Review B, 2015, 91, .	3.2	10
44	Shortcut to Adiabaticity in the Lipkin-Meshkov-Glick Model. Physical Review Letters, 2015, 114, 177206.	7.8	101
45	Characterization and properties of weakly optimal entanglement witnesses. Quantum Information and Computation, 2015, 15, 1109-1121.	0.3	3
46	Quenching small quantum gases: Genesis of the orthogonality catastrophe. Physical Review A, 2014, 90, .	2.5	45
47	Global quantum correlations in finite-size spin chains. New Journal of Physics, 2013, 15, 043033.	2.9	59
48	Predominance of entanglement of formation over quantum discord under quantum channels. Quantum Information Processing, 2013, 12, 2623-2636.	2.2	10
49	Effect of interparticle interaction in a free-oscillation atomic interferometer. Physical Review A, 2013, 87, .	2.5	20
50	Criticality, factorization, and long-range correlations in the anisotropic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>X</mml:mi><mml:mi>Y</mml:mi></mml:mrow></mml:math>model. Physical Review A, 2013, 88, .	2.5	55
51	Critical assessment of two-qubit post-Markovian master equations. Physical Review A, 2012, 85, .	2.5	18
52	Propagation of nonclassical correlations across a quantum spin chain. Physical Review A, 2011, 84, .	2.5	49
53	GLOBAL QUANTUM CORRELATIONS IN THE ISING MODEL. International Journal of Quantum Information, 2011, 09, 1685-1699.	1.1	27
54	Multipartite nonlocality in a thermalized Ising spin chain. Physical Review A, 2010, 82, .	2.5	38

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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	Probing the environment of an inaccessible system by a qubit ancilla. Physical Review A, 2010, 81, .	2.5	17
57	Controllable Gaussian-Qubit Interface for Extremal Quantum State Engineering. Physical Review Letters, 2010, 104, 240501.	7.8	15
58	Dissipative scheme to approach the boundary of two-qubit entangled mixed states. Physical Review A, 2009, 79, .	2.5	14
59	Structural change in multipartite entanglement sharing: A random matrix approach. Physical Review A, 2009, 80, .	2.5	9
60	Characterizing multipartite symmetric Dicke states under the effects of noise. New Journal of Physics, 2009, 11, 073039.	2.9	24
61	Passing quantum correlations to qubits using any two-mode state. Physical Review A, 2009, 80, .	2.5	12