

Stephen R Clark

List of Publications by Year in descending order

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59
papers

2,707
citations

172457

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175258

52
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59
all docs

59
docs citations

59
times ranked

2901
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermally driven polaron transport in conjugated polymers. <i>Physical Review B</i> , 2022, 105, .	3.2	5
2	Investigation of the non-equilibrium state of strongly correlated materials by complementary ultrafast spectroscopy techniques. <i>New Journal of Physics</i> , 2021, 23, 033025.	2.9	7
3	Neural-Network Quantum States for Spin-1 Systems: Spin-Basis and Parameterization Effects on Compactness of Representations. <i>Entropy</i> , 2021, 23, 879.	2.2	2
4	Compact neural-network quantum state representations of Jastrow and stabilizer states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 405304.	2.1	2
5	Tensor-Network Method to Simulate Strongly Interacting Quantum Thermal Machines. <i>Physical Review X</i> , 2020, 10, .	8.9	45
6	Parallel time-dependent variational principle algorithm for matrix product states. <i>Physical Review B</i> , 2020, 101, .	3.2	20
7	Controllable finite-momenta dynamical quasicondensation in the periodically driven one-dimensional Fermi-Hubbard model. <i>Physical Review A</i> , 2020, 101, .	2.5	5
8	Energy Current Rectification and Mobility Edges. <i>Physical Review Letters</i> , 2019, 123, 020603.	7.8	25
9	Hidden order in quantum many-body dynamics of driven-dissipative nonlinear photonic lattices. <i>Physical Review A</i> , 2019, 99, .	2.5	9
10	Thermodynamics of precision in quantum nonequilibrium steady states. <i>Physical Review Research</i> , 2019, 1, .	3.6	104
11	Unifying neural-network quantum states and correlator product states via tensor networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 135301.	2.1	50
12	Ground-state phase diagram of the one-dimensional $t\hat{\tau}^zJ$ model with pair hopping terms. <i>Physical Review B</i> , 2018, 98, .	3.2	9
13	Ultra-Fast Control of Magnetic Relaxation in a Periodically Driven Hubbard Model. <i>Annalen Der Physik</i> , 2017, 529, 1700024.	2.4	15
14	The tensor network theory library. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017, 2017, 093102.	2.3	43
15	Dephasing enhanced spin transport in the ergodic phase of a many-body localizable system. <i>Annalen Der Physik</i> , 2017, 529, 1600298.	2.4	29
16	Non-linear quantum-classical scheme to simulate non-equilibrium strongly correlated fermionic many-body dynamics. <i>Scientific Reports</i> , 2016, 6, 32940.	3.3	32
17	Few-qubit quantum-classical simulation of strongly correlated lattice fermions. <i>EPJ Quantum Technology</i> , 2016, 3, .	6.3	36
18	Possible light-induced superconductivity in K3C60 at high temperature. <i>Nature</i> , 2016, 530, 461-464.	27.8	572

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19	Spatially resolved ultrafast magnetic dynamics initiated at a complex oxide heterointerface. <i>Nature Materials</i> , 2015, 14, 883-888.	27.5	109
20	Transport enhancement from incoherent coupling between one-dimensional quantum conductors. <i>New Journal of Physics</i> , 2014, 16, 053016.	2.9	11
21	What is a quantum simulator?. <i>EPJ Quantum Technology</i> , 2014, 1, .	6.3	89
22	Pressure-Dependent Relaxation in the Photoexcited Mott Insulator $F \propto \frac{1}{T^2}$ Influence of Hopping and Correlations on Quasiparticle Recombination Rates. <i>Physical Review Letters</i> , 2014, 112, 117801.	7.8	58
23	Optical Properties of a Vibrationally Modulated Solid State Mott Insulator. <i>Scientific Reports</i> , 2014, 4, 3823.	3.3	40
24	Quantifying the Nonclassicality of Operations. <i>Physical Review Letters</i> , 2013, 110, 070502.	7.8	30
25	Dephasing enhanced transport in nonequilibrium strongly correlated quantum systems. <i>Physical Review B</i> , 2013, 87, .	3.2	69
26	Ab initio derivation of Hubbard models for cold atoms in optical lattices. <i>Physical Review A</i> , 2013, 87, .	2.5	44
27	Heat transport in the XZ spin chain: from ballistic to diffusive regimes and dephasing enhancement. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P07007.	2.3	59
28	Capturing the reentrant behavior of one-dimensional Bose-Hubbard model. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 51-58.	1.5	6
29	Repulsively induced photon superbunching in driven resonator arrays. <i>Physical Review A</i> , 2013, 87, .	2.5	36
30	Solving search problems by strongly simulating quantum circuits. <i>Scientific Reports</i> , 2013, 3, 1235.	3.3	11
31	Non-equilibrium many-body effects in driven nonlinear resonator arrays. <i>New Journal of Physics</i> , 2012, 14, 103025.	2.9	52
32	Breathing oscillations of a trapped impurity in a Bose gas. <i>Europhysics Letters</i> , 2012, 98, 26001.	2.0	34
33	Reentrance and entanglement in the one-dimensional Bose-Hubbard model. <i>Physical Review A</i> , 2012, 86, .	2.5	27
34	Algebraically contractible topological tensor network states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 015309.	2.1	21
35	Capturing long range correlations in two-dimensional quantum lattice systems using correlator product states. <i>Physical Review B</i> , 2011, 84, .	3.2	17
36	Categorical Tensor Network States. <i>AIP Advances</i> , 2011, 1, .	1.3	33

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37	Quantum interference between charge excitation paths in a solid-state Mott insulator. <i>Nature Physics</i> , 2011, 7, 114-118.	16.7	134
38	Impurity transport through a strongly interacting bosonic quantum gas. <i>Physical Review A</i> , 2011, 84, .	2.5	45
39	Phonon resonances in atomic currents through Bose-Fermi mixtures in optical lattices. <i>Physical Review A</i> , 2010, 82, .	2.5	18
40	Exact matrix product solutions in the Heisenberg picture of an open quantum spin chain. <i>New Journal of Physics</i> , 2010, 12, 025005.	2.9	41
41	Entanglement consumption of instantaneous nonlocal quantum measurements. <i>New Journal of Physics</i> , 2010, 12, 083034.	2.9	22
42	DECOHERENCE OF A QUANTUM MEMORY COUPLED TO A COLLECTIVE SPIN BATH. <i>International Journal of Quantum Information</i> , 2010, 08, 271-294.	1.1	1
43	Dynamical simulations of classical stochastic systems using matrix product states. <i>Physical Review E</i> , 2010, 82, 036702.	2.1	32
44	Density Matrix Renormalization Group in the Heisenberg Picture. <i>Physical Review Letters</i> , 2009, 102, 057202.	7.8	52
45	Transport of strong-coupling polarons in optical lattices. <i>New Journal of Physics</i> , 2008, 10, 033015.	2.9	59
46	Adiabatic melting of two-component Mott-insulator states. <i>Physical Review A</i> , 2008, 77, .	2.5	2
47	Adiabatic evolution of on-site superposition states in a completely-connected optical lattice. <i>Journal of Physics: Conference Series</i> , 2008, 99, 012017.	0.4	1
48	Dissipative dynamics of atomic Hubbard models coupled to a phonon bath: dark state cooling of atoms within a Bloch band of an optical lattice. <i>New Journal of Physics</i> , 2007, 9, 44-44.	2.9	29
49	Dynamics, dephasing and clustering of impurity atoms in Bose-Einstein condensates. <i>New Journal of Physics</i> , 2007, 9, 411-411.	2.9	59
50	Fast initialization of a high-fidelity quantum register using optical superlattices. <i>New Journal of Physics</i> , 2007, 9, 221-221.	2.9	10
51	Graph state generation with noisy mirror-inverting spin chains. <i>New Journal of Physics</i> , 2007, 9, 202-202.	2.9	10
52	Polaron physics in optical lattices. <i>Physical Review A</i> , 2007, 76, .	2.5	128
53	Generation of twin Fock states via transition from a two-component Mott insulator to a superfluid. <i>Physical Review A</i> , 2007, 75, .	2.5	14
54	Dark-State Cooling of Atoms by Superfluid Immersion. <i>Physical Review Letters</i> , 2006, 97, 220403.	7.8	68

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55	Signatures of the superfluid to Mott-insulator transition in the excitation spectrum of ultracold atoms. <i>New Journal of Physics</i> , 2006, 8, 160-160.	2.9	29
56	Efficient Dynamical Simulation of Strongly Correlated One-Dimensional Quantum Systems. <i>Lecture Notes in Computer Science</i> , 2006, , 555-563.	1.3	0
57	Efficient generation of graph states for quantum computation. <i>New Journal of Physics</i> , 2005, 7, 124-124.	2.9	85
58	Numerical analysis of coherent many-body currents in a single atom transistor. <i>Physical Review A</i> , 2005, 72, .	2.5	39
59	Dynamics of the superfluid to Mott-insulator transition in one dimension. <i>Physical Review A</i> , 2004, 70, .	2.5	73