

Zhe Sun

List of Publications by Year in descending order

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times ranked

644
citing authors

#	ARTICLE	IF	CITATIONS
1	Fisher information under decoherence in Bloch representation. <i>Physical Review A</i> , 2013, 87, .	2.5	248
2	Entanglement dynamics of two qubits in a common bath. <i>Physical Review A</i> , 2012, 85, .	2.5	127
3	Disentanglement in a quantum-critical environment. <i>Physical Review A</i> , 2007, 75, .	2.5	122
4	Fisher information in a quantum-critical environment. <i>Physical Review A</i> , 2010, 82, .	2.5	80
5	Quantum speed limits in open systems: Non-Markovian dynamics without rotating-wave approximation. <i>Scientific Reports</i> , 2015, 5, 8444.	3.3	78
6	Operator fidelity susceptibility, decoherence, and quantum criticality. <i>Physical Review A</i> , 2008, 78, .	2.5	36
7	Photon-assisted Landau-Zener transition: Role of coherent superposition states. <i>Physical Review A</i> , 2012, 86, .	2.5	32
8	Broadcasting quantum Fisher information. <i>Physical Review A</i> , 2013, 87, .	2.5	32
9	Finite-time Landau-Zener processes and counterdiabatic driving in open systems: Beyond Born, Markov, and rotating-wave approximations. <i>Physical Review A</i> , 2016, 93, .	2.5	29
10	Quantum discord induced by a spin chain with quantum phase transition. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 215504.	1.5	20
11	Fisher-information manifestation of dynamical stability and transition to self-trapping for Bose-Einstein condensates. <i>Physical Review A</i> , 2012, 86, .	2.5	18
12	Experimental demonstration of quantum walks with initial superposition states. <i>Npj Quantum Information</i> , 2019, 5, .	6.7	18
13	Experimental simulation of a quantum channel without the rotating-wave approximation: testing quantum temporal steering. <i>Optica</i> , 2017, 4, 1065.	9.3	15
14	Entropic uncertainty relation and quantum phase transition in spin-1/2 Heisenberg chain. <i>Laser Physics Letters</i> , 2020, 17, 095203.	1.4	15
15	Spin squeezing under decoherence: Role of the quantum phase transition. <i>Physical Review A</i> , 2011, 84, .	2.5	14
16	Generation and storage of spin-nematic squeezing in a spinor Bose-Einstein condensate. <i>Physical Review A</i> , 2015, 92, .	2.5	14
17	Operator fidelity approach to the quantum phase transition of the spin-1/2 XX chain with three-spin interaction and the (1/2,1) XXZ mixed-spin chain. <i>New Journal of Physics</i> , 2009, 11, 113005.	2.9	11
18	Reduced-fidelity approach for quantum phase transitions in spin- $\frac{1}{2}$ dimerized Heisenberg chains. <i>Physical Review B</i> , 2009, 79, .	3.2	11

#	ARTICLE	IF	CITATIONS
19	Dynamics of quantum discord in a quantum critical environment. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 215501.	1.5	10
20	Global versus local quantum squeezing in composite systems. <i>Physical Review A</i> , 2009, 79, .	2.5	9
21	Atom-number fluctuation and macroscopic quantum entanglement in dipole spinor condensates. <i>Physical Review A</i> , 2014, 89, .	2.5	8
22	Quantum Temporal Steering in a Dephasing Channel With Quantum Criticality. <i>Annalen Der Physik</i> , 2018, 530, 1700373.	2.4	7
23	Non-Markovianity in experimentally simulated quantum channels: Role of counterrotating-wave terms. <i>Physical Review A</i> , 2019, 100, .	2.5	6
24	Implementing a quantum search algorithm with nonorthogonal states. <i>Physical Review A</i> , 2021, 103, .	2.5	6
25	Creation of quantum steering by interaction with a common bath. <i>Physical Review A</i> , 2018, 97, .	2.5	5
26	Phase diagram and spin mixing dynamics in spinor condensates with a microwave dressing field. <i>Scientific Reports</i> , 2015, 5, 14464.	3.3	4
27	Unveiling quantum entanglement and correlation of sub-Ohmic and Ohmic baths for quantum phase transitions in dissipative systems. <i>Physical Review A</i> , 2022, 105, .	2.5	2
28	Steering-induced coherence in decoherence channels. <i>Laser Physics Letters</i> , 2021, 18, 055201.	1.4	1
29	Quantum tunneling and entanglement of dipolar spin-1 bosons in double well potentials. <i>European Physical Journal D</i> , 2015, 69, 1.	1.3	0