Zhe Sun

List of Publications by Year
in descending order

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Version: 2024-02-01

29 papers	978 citations	623734 14 h-index	501196 28 g-index
29 all docs	29 docs citations	29 times ranked	644 citing authors

#	Article	IF	Citations
1	Unveiling quantum entanglement and correlation of sub-Ohmic and Ohmic baths for quantum phase transitions in dissipative systems. Physical Review A, 2022, 105, .	2.5	2
2	Implementing a quantum search algorithm with nonorthogonal states. Physical Review A, 2021, 103, .	2.5	6
3	Steering-induced coherence in decoherence channels. Laser Physics Letters, 2021, 18, 055201.	1.4	1
4	Entropic uncertainty relation and quantum phase transition in spin-1/2 Heisenberg chain. Laser Physics Letters, 2020, 17, 095203.	1.4	15
5	Non-Markovianity in experimentally simulated quantum channels: Role of counterrotating-wave terms. Physical Review A, 2019, 100, .	2.5	6
6	Experimental demonstration of quantum walks with initial superposition states. Npj Quantum Information, 2019, 5, .	6.7	18
7	Quantum Temporal Steering in a Dephasing Channel With Quantum Criticality. Annalen Der Physik, 2018, 530, 1700373.	2.4	7
8	Creation of quantum steering by interaction with a common bath. Physical Review A, 2018, 97, .	2.5	5
9	Experimental simulation of a quantum channel without the rotating-wave approximation: testing quantum temporal steering. Optica, 2017, 4, 1065.	9.3	15
10	Finite-time Landau-Zener processes and counterdiabatic driving in open systems: Beyond Born, Markov, and rotating-wave approximations. Physical Review A, 2016, 93, .	2.5	29
11	Generation and storage of spin-nematic squeezing in a spinor Bose-Einstein condensate. Physical Review A, 2015, 92, .	2.5	14
12	Phase diagram and spin mixing dynamics in spinor condensates with a microwave dressing field. Scientific Reports, 2015, 5, 14464.	3.3	4
13	Quantum speed limits in open systems: Non-Markovian dynamics without rotating-wave approximation. Scientific Reports, 2015, 5, 8444.	3.3	78
14	Quantum tunneling and entanglement of dipolar spin-1 bosons in double well potentials. European Physical Journal D, 2015, 69, 1.	1.3	0
15	Atom-number fluctuation and macroscopic quantum entanglement in dipole spinor condensates. Physical Review A, 2014, 89, .	2.5	8
16	Broadcasting quantum Fisher information. Physical Review A, 2013, 87, .	2.5	32
17	Fisher information under decoherence in Bloch representation. Physical Review A, 2013, 87, .	2.5	248
18	Fisher-information manifestation of dynamical stability and transition to self-trapping for Bose-Einstein condensates. Physical Review A, 2012, 86, .	2.5	18

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19	Photon-assisted Landau-Zener transition: Role of coherent superposition states. Physical Review A, 2012, 86, .	2.5	32
20	Entanglement dynamics of two qubits in a common bath. Physical Review A, 2012, 85, .	2.5	127
21	Dynamics of quantum discord in a quantum critical environment. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 215501.	1.5	10
22	Spin squeezing under decoherence: Role of the quantum phase transition. Physical Review A, 2011, 84, .	2.5	14
23	Fisher information in a quantum-critical environment. Physical Review A, 2010, 82, .	2.5	80
24	Quantum discord induced by a spin chain with quantum phase transition. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 215504.	1.5	20
25	Global versus local quantum squeezing in composite systems. Physical Review A, 2009, 79, .	2.5	9
26	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. New Journal of Physics, 2009, 11, 113005.	2.9	11
27	Reduced-fidelity approach for quantum phase transitions in spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mstyle scriptlevel="1"><mml:mfrac bevelled="false"><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mstyle></mml:mrow></mml:math>dimerized Heisenberg chains. Physical Review B, 2009, 79, .	3.2	11
28	Operator fidelity susceptibility, decoherence, and quantum criticality. Physical Review A, 2008, 78, .	2.5	36
29	Disentanglement in a quantum-critical environment. Physical Review A, 2007, 75, .	2.5	122