Duan-Lu Zhou

List of Publications by Year
in descending order

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		304602	302012
66	1,643	22	39
papers	citations	h-index	g-index

66	66	66	1295
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coherent spin mixing dynamics in a spin-1 atomic condensate. Physical Review A, 2005, 72, .	1.0	163
2	Quantum computation based ond-level cluster state. Physical Review A, 2003, 68, .	1.0	124
3	Dynamical Instability and Domain Formation in a Spin-1 Bose-Einstein Condensate. Physical Review Letters, 2005, 95, 180403.	2.9	103
4	Necessary and sufficient conditions for local creation of quantum correlation. Physical Review A, 2012, 85, .	1.0	85
5	Deep reinforcement learning for quantum gate control. Europhysics Letters, 2019, 126, 60002.	0.7	73
6	Mosaic spin models with topological order. Physical Review B, 2007, 76, .	1.1	66
7	Nonlinear dynamics of a cigar-shaped Bose-Einstein condensate in an optical cavity. Physical Review A, 2009, 79, .	1.0	66
8	Semiconductor-cavity QED in high-Qregimes withq-deformed bosons. Physical Review A, 2001, 63, .	1.0	62
9	Separability-entanglement classifier via machine learning. Physical Review A, 2018, 98, .	1.0	60
10	Irreducible Multiparty Correlations in Quantum States without Maximal Rank. Physical Review Letters, 2008, 101, 180505.	2.9	57
11	Quantum correlating power of local quantum channels. Physical Review A, 2013, 87, .	1.0	53
12	Cavity QED with cold atoms trapped in a double-well potential. Physical Review A, 2008, 77, .	1.0	52
13	Quantum measurement via Born-Oppenheimer adiabatic dynamics. Physical Review A, 2000, 63, .	1.0	50
14	Deterministic Coherence Distillation. Physical Review Letters, 2019, 123, 070402.	2.9	46
15	Mean-field dynamics of a Bose Josephson junction in an optical cavity. Physical Review A, 2008, 78, .	1.0	44
16	Single-photon scattering on a strongly dressed atom. Physical Review A, 2012, 86, .	1.0	36
17	Multiparty correlation measure based on the cumulant. Physical Review A, 2006, 74, .	1.0	34
18	Fast entanglement of two charge-phase qubits through nonadiabatic coupling to a large Josephson junction. Physical Review B, 2004, 70, .	1.1	27

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19	Entanglement between two interacting atoms in a one-dimensional harmonic trap. Physical Review A, 2006, 73, .	1.0	27
20	Deflection of slow light by magneto-optically controlled atomic media. Physical Review A, 2007, 76, .	1.0	26
21	Quantum optimal control of multilevel dissipative quantum systems with reinforcement learning. Physical Review A, 2021, 103, .	1.0	26
22	Generating entangled photon pairs from a cavity-QED system. Physical Review A, 2005, 72, .	1.0	24
23	Creating Bell states and decoherence effects in a quantum-dot system. Physical Review A, 2001, 63, .	1.0	22
24	Catalyst-assisted probabilistic coherence distillation for mixed states. Physical Review A, 2020, 101, .	1.0	22
25	From ground states to local Hamiltonians. Physical Review A, 2012, 86, .	1.0	21
26	Discontinuity of maximum entropy inference and quantum phase transitions. New Journal of Physics, 2015, 17, 083019.	1.2	20
27	Quantum theory for spatial motion of polaritons in inhomogeneous fields. Physical Review A, 2008, 77, .	1.0	16
28	Comment on some results of Erdahl and the convex structure of reduced density matrices. Journal of Mathematical Physics, 2012, 53, .	0.5	16
29	Irreducible multiparty correlations can be created by local operations. Physical Review A, 2009, 80, .	1.0	13
30	Quantum imaginary time evolution steered by reinforcement learning. Communications Physics, 2022, 5, .	2.0	12
31	Measuring the Parity of anN-Qubit State. Physical Review Letters, 2005, 95, 110502.	2.9	11
32	Probing the quantum ground state of a spin-1 Bose-Einstein condensate with cavity transmission spectra. Physical Review A, 2009, 80, .	1.0	11
33	Encoding a logical qubit into physical qubits. Physical Review A, 2005, 71, .	1.0	10
34	Multimode effects in cavity QED based on a one-dimensional cavity array. Physical Review A, 2014, 90, .	1.0	10
35	Optimized quantum state transfer through anXYspin chain. Physical Review A, 2014, 89, .	1.0	10
36	Decoherence in a single trapped ion due to an engineered reservoir. Journal of Optics B: Quantum and Semiclassical Optics, 2001, 3, 1-5.	1.4	9

#	Article	IF	Citations
37	Non-Markovian dynamics in a spin star system: the failure of thermalisation. European Physical Journal D, 2013, 67, 1.	0.6	9
38	Dissipation and decoherence induced by collective dephasing in a coupled-qubit system with a common bath. Physical Review A, 2015, 91, .	1.0	9
39	Transfer of an arbitrary photon state along a cavity array without initialization. New Journal of Physics, 2015, 17, 013032.	1.2	9
40	Irreducible many-body correlations in topologically ordered systems. New Journal of Physics, 2016, 18, 023024.	1.2	8
41	Quantum state transfer along a ring with time-reversal asymmetry. Physical Review A, 2015, 91, .	1.0	7
42	Entanglement and spin-squeezing properties for three bosons in two modes. Physical Review A, 2005, 71, .	1.0	6
43	Stabilizer dimension of graph states. Physical Review A, 2009, 79, .	1.0	6
44	Optimal transfer of an unknown state via a bipartite quantum operation. Europhysics Letters, 2013, 102, 50003.	0.7	6
45	Quasidark state and quantum interference in the Jaynes-Cummings model with a common bath. Physical Review A, 2014, 89, .	1.0	6
46	Physical origins of ruled surfaces on the reduced density matrices geometry. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	2.0	6
47	Tunable coupling between a superconducting resonator and an artificial atom. European Physical Journal D, 2019, 73, 1.	0.6	6
48	Increasing the dimension of the maximal pure coherent subspace of a state via incoherent operations. Physical Review A, 2020, 102, .	1.0	6
49	Criterion for testing multiparticle negative-partial-transpose entanglement. Physical Review A, 2003, 68, .	1.0	5
50	Correlation function and mutual information. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 445302.	0.7	5
51	Graph states of prime-power dimension from generalized CNOT quantum circuit. Scientific Reports, 2016, 6, 27135.	1.6	5
52	Entanglement witness game. Physical Review A, 2017, 95, .	1.0	5
53	Dynamics of Rabi model under second-order Bornâ€"Oppenheimer approximation. Chinese Physics B, 2013, 22, 114205.	0.7	4
54	Superadditivity of quantum-correlating power. Physical Review A, 2013, 88, .	1.0	4

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55	Efficient Numerical Algorithm on Irreducible Multiparty Correlations. Communications in Theoretical Physics, 2014, 61, 187-190.	1.1	4
56	Understanding the destruction ofnth-order quantum coherence in terms of multipath interference. Physical Review A, 2002, 66, .	1.0	3
57	Dissipative dynamics of a spin in a spin environment with non-uniform coupling. European Physical Journal D, 2014, 68, 1.	0.6	3
58	Deterministic quantum one-time pad via Fibonacci anyons. Physical Review A, 2021, 104, .	1.0	3
59	Recovery of a generic local Hamiltonian from a steady state. Physical Review A, 2022, 105, .	1.0	3
60	Entanglement between two fermionic atoms inside a cylindrical harmonic trap. Physical Review A, 2007, 75, .	1.0	2
61	Correlation in quantum states of two identical particles. Europhysics Letters, 2009, 88, 10006.	0.7	2
62	Geometry and symmetry in the quantum Boltzmann machine. Physical Review A, 2019, 99, .	1.0	2
63	Single-photon scattering by two separated atoms in a supercavity. Chinese Physics B, 2016, 25, 064203.	0.7	1
64	Single-photon scattering with counter rotating wave interaction. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 145002.	0.6	1
65	Finite-temperature excitations of an inhomogeneous trapped Bose gas with Feshbach resonances. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 1193-1201.	0.6	0
66	Correlation and Entanglement. Quantum Science and Technology, 2019, , 3-35.	1.5	0