

# Duan-Lu Zhou

## List of Publications by Year in descending order

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66  
papers

1,643  
citations

304743

22  
h-index

302126

39  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1295  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent spin mixing dynamics in a spin-1 atomic condensate. <i>Physical Review A</i> , 2005, 72, .	2.5	163
2	Quantum computation based on d-level cluster state. <i>Physical Review A</i> , 2003, 68, .	2.5	124
3	Dynamical Instability and Domain Formation in a Spin-1 Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2005, 95, 180403.	7.8	103
4	Necessary and sufficient conditions for local creation of quantum correlation. <i>Physical Review A</i> , 2012, 85, .	2.5	85
5	Deep reinforcement learning for quantum gate control. <i>Europhysics Letters</i> , 2019, 126, 60002.	2.0	73
6	Mosaic spin models with topological order. <i>Physical Review B</i> , 2007, 76, .	3.2	66
7	Nonlinear dynamics of a cigar-shaped Bose-Einstein condensate in an optical cavity. <i>Physical Review A</i> , 2009, 79, .	2.5	66
8	Semiconductor-cavity QED in high-Q regimes with q-deformed bosons. <i>Physical Review A</i> , 2001, 63, .	2.5	62
9	Separability-entanglement classifier via machine learning. <i>Physical Review A</i> , 2018, 98, .	2.5	60
10	Irreducible Multiparty Correlations in Quantum States without Maximal Rank. <i>Physical Review Letters</i> , 2008, 101, 180505.	7.8	57
11	Quantum correlating power of local quantum channels. <i>Physical Review A</i> , 2013, 87, .	2.5	53
12	Cavity QED with cold atoms trapped in a double-well potential. <i>Physical Review A</i> , 2008, 77, .	2.5	52
13	Quantum measurement via Born-Oppenheimer adiabatic dynamics. <i>Physical Review A</i> , 2000, 63, .	2.5	50
14	Deterministic Coherence Distillation. <i>Physical Review Letters</i> , 2019, 123, 070402.	7.8	46
15	Mean-field dynamics of a Bose Josephson junction in an optical cavity. <i>Physical Review A</i> , 2008, 78, .	2.5	44
16	Single-photon scattering on a strongly dressed atom. <i>Physical Review A</i> , 2012, 86, .	2.5	36
17	Multiparty correlation measure based on the cumulant. <i>Physical Review A</i> , 2006, 74, .	2.5	34
18	Fast entanglement of two charge-phase qubits through nonadiabatic coupling to a large Josephson junction. <i>Physical Review B</i> , 2004, 70, .	3.2	27

#	ARTICLE	IF	CITATIONS
19	Entanglement between two interacting atoms in a one-dimensional harmonic trap. <i>Physical Review A</i> , 2006, 73, .	2.5	27
20	Deflection of slow light by magneto-optically controlled atomic media. <i>Physical Review A</i> , 2007, 76, .	2.5	26
21	Quantum optimal control of multilevel dissipative quantum systems with reinforcement learning. <i>Physical Review A</i> , 2021, 103, .	2.5	26
22	Generating entangled photon pairs from a cavity-QED system. <i>Physical Review A</i> , 2005, 72, .	2.5	24
23	Creating Bell states and decoherence effects in a quantum-dot system. <i>Physical Review A</i> , 2001, 63, .	2.5	22
24	Catalyst-assisted probabilistic coherence distillation for mixed states. <i>Physical Review A</i> , 2020, 101, .	2.5	22
25	From ground states to local Hamiltonians. <i>Physical Review A</i> , 2012, 86, .	2.5	21
26	Discontinuity of maximum entropy inference and quantum phase transitions. <i>New Journal of Physics</i> , 2015, 17, 083019.	2.9	20
27	Quantum theory for spatial motion of polaritons in inhomogeneous fields. <i>Physical Review A</i> , 2008, 77, .	2.5	16
28	Comment on some results of Erdahl and the convex structure of reduced density matrices. <i>Journal of Mathematical Physics</i> , 2012, 53, .	1.1	16
29	Irreducible multiparty correlations can be created by local operations. <i>Physical Review A</i> , 2009, 80, .	2.5	13
30	Quantum imaginary time evolution steered by reinforcement learning. <i>Communications Physics</i> , 2022, 5, .	5.3	12
31	Measuring the Parity of an N-Qubit State. <i>Physical Review Letters</i> , 2005, 95, 110502.	7.8	11
32	Probing the quantum ground state of a spin-1 Bose-Einstein condensate with cavity transmission spectra. <i>Physical Review A</i> , 2009, 80, .	2.5	11
33	Encoding a logical qubit into physical qubits. <i>Physical Review A</i> , 2005, 71, .	2.5	10
34	Multimode effects in cavity QED based on a one-dimensional cavity array. <i>Physical Review A</i> , 2014, 90, .	2.5	10
35	Optimized quantum state transfer through an XY spin chain. <i>Physical Review A</i> , 2014, 89, .	2.5	10
36	Decoherence in a single trapped ion due to an engineered reservoir. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2001, 3, 1-5.	1.4	9

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37	Non-Markovian dynamics in a spin star system: the failure of thermalisation. <i>European Physical Journal D</i> , 2013, 67, 1.	1.3	9
38	Dissipation and decoherence induced by collective dephasing in a coupled-qubit system with a common bath. <i>Physical Review A</i> , 2015, 91, .	2.5	9
39	Transfer of an arbitrary photon state along a cavity array without initialization. <i>New Journal of Physics</i> , 2015, 17, 013032.	2.9	9
40	Irreducible many-body correlations in topologically ordered systems. <i>New Journal of Physics</i> , 2016, 18, 023024.	2.9	8
41	Quantum state transfer along a ring with time-reversal asymmetry. <i>Physical Review A</i> , 2015, 91, .	2.5	7
42	Entanglement and spin-squeezing properties for three bosons in two modes. <i>Physical Review A</i> , 2005, 71, .	2.5	6
43	Stabilizer dimension of graph states. <i>Physical Review A</i> , 2009, 79, .	2.5	6
44	Optimal transfer of an unknown state via a bipartite quantum operation. <i>Europhysics Letters</i> , 2013, 102, 50003.	2.0	6
45	Quasidark state and quantum interference in the Jaynes-Cummings model with a common bath. <i>Physical Review A</i> , 2014, 89, .	2.5	6
46	Physical origins of ruled surfaces on the reduced density matrices geometry. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	5.1	6
47	Tunable coupling between a superconducting resonator and an artificial atom. <i>European Physical Journal D</i> , 2019, 73, 1.	1.3	6
48	Increasing the dimension of the maximal pure coherent subspace of a state via incoherent operations. <i>Physical Review A</i> , 2020, 102, .	2.5	6
49	Criterion for testing multipartite negative-partial-transpose entanglement. <i>Physical Review A</i> , 2003, 68, .	2.5	5
50	Correlation function and mutual information. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 445302.	2.1	5
51	Graph states of prime-power dimension from generalized CNOT quantum circuit. <i>Scientific Reports</i> , 2016, 6, 27135.	3.3	5
52	Entanglement witness game. <i>Physical Review A</i> , 2017, 95, .	2.5	5
53	Dynamics of Rabi model under second-order Born-â€”Oppenheimer approximation. <i>Chinese Physics B</i> , 2013, 22, 114205.	1.4	4
54	Superadditivity of quantum-correlating power. <i>Physical Review A</i> , 2013, 88, .	2.5	4

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55	Efficient Numerical Algorithm on Irreducible Multiparty Correlations. Communications in Theoretical Physics, 2014, 61, 187-190.	2.5	4
56	Understanding the destruction of nth-order quantum coherence in terms of multipath interference. Physical Review A, 2002, 66, .	2.5	3
57	Dissipative dynamics of a spin in a spin environment with non-uniform coupling. European Physical Journal D, 2014, 68, 1.	1.3	3
58	Deterministic quantum one-time pad via Fibonacci anyons. Physical Review A, 2021, 104, .	2.5	3
59	Recovery of a generic local Hamiltonian from a steady state. Physical Review A, 2022, 105, .	2.5	3
60	Entanglement between two fermionic atoms inside a cylindrical harmonic trap. Physical Review A, 2007, 75, .	2.5	2
61	Correlation in quantum states of two identical particles. Europhysics Letters, 2009, 88, 10006.	2.0	2
62	Geometry and symmetry in the quantum Boltzmann machine. Physical Review A, 2019, 99, .	2.5	2
63	Single-photon scattering by two separated atoms in a supercavity. Chinese Physics B, 2016, 25, 064203.	1.4	1
64	Single-photon scattering with counter rotating wave interaction. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 145002.	1.5	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.	1.5	0
66	Correlation and Entanglement. Quantum Science and Technology, 2019, , 3-35.	2.6	0