

# Dong-Ling Deng

## List of Publications by Year in descending order

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67  
papers

1,962  
citations

257357

24  
h-index

254106

43  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1711  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Entanglement in Neural Network States. <i>Physical Review X</i> , 2017, 7, .	2.8	241
2	Machine learning topological states. <i>Physical Review B</i> , 2017, 96, .	1.1	222
3	Machine learning meets quantum physics. <i>Physics Today</i> , 2019, 72, 48-54.	0.3	117
4	Quantum generative adversarial learning in a superconducting quantum circuit. <i>Science Advances</i> , 2019, 5, eaav2761.	4.7	108
5	Quantum nonergodicity and fermion localization in a system with a single-particle mobility edge. <i>Physical Review B</i> , 2016, 93, .	1.1	74
6	State-Independent Experimental Test of Quantum Contextuality with a Single Trapped Ion. <i>Physical Review Letters</i> , 2013, 110, 070401.	2.9	70
7	State-Independent Experimental Test of Quantum Contextuality in an Indivisible System. <i>Physical Review Letters</i> , 2012, 109, 150401.	2.9	59
8	Machine Learning Many-Body Localization: Search for the Elusive Nonergodic Metal. <i>Physical Review Letters</i> , 2018, 121, 245701.	2.9	56
9	Quantum adversarial machine learning. <i>Physical Review Research</i> , 2020, 2, .	1.3	55
10	Machine Learning Detection of Bell Nonlocality in Quantum Many-Body Systems. <i>Physical Review Letters</i> , 2018, 120, 240402.	2.9	51
11	Machine Learning Topological Phases with a Solid-State Quantum Simulator. <i>Physical Review Letters</i> , 2019, 122, 210503.	2.9	47
12	Topological Quantum Compiling with Reinforcement Learning. <i>Physical Review Letters</i> , 2020, 125, 170501.	2.9	46
13	Transport properties across the many-body localization transition in quasiperiodic and random systems. <i>Physical Review B</i> , 2017, 96, .	1.1	42
14	Reexamination of a multisetting Bell inequality for qudits. <i>Physical Review A</i> , 2009, 80, .	1.0	40
15	Many-body localization in incommensurate models with a mobility edge. <i>Annalen Der Physik</i> , 2017, 529, 1600399.	0.9	40
16	Recent advances for quantum classifiers. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, 1.	2.0	40
17	Direct probe of topological order for cold atoms. <i>Physical Review A</i> , 2014, 90, .	1.0	38
18	Detecting full $N$ -particle entanglement in arbitrarily-high-dimensional systems with Bell-type inequalities. <i>Physical Review A</i> , 2011, 83, .	1.0	37

#	ARTICLE	IF	CITATIONS
19	Observation of Non-Hermitian Topology with Nonunitary Dynamics of Solid-State Spins. <i>Physical Review Letters</i> , 2021, 127, 090501.	2.9	37
20	Bell nonlocality in conventional and topological quantum phase transitions. <i>Physical Review A</i> , 2012, 86, .	1.0	35
21	Majorana spintronics. <i>Physical Review B</i> , 2016, 94, .	1.1	33
22	Quantum federated learning through blind quantum computing. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	31
23	Exponential orthogonality catastrophe in single-particle and many-body localized systems. <i>Physical Review B</i> , 2015, 92, .	1.1	29
24	Hamiltonian tomography for quantum many-body systems with arbitrary couplings. <i>New Journal of Physics</i> , 2015, 17, 093017.	1.2	29
25	Probe Knots and Hopf Insulators with Ultracold Atoms. <i>Chinese Physics Letters</i> , 2018, 35, 013701.	1.3	24
26	Logarithmic entanglement lightcone in many-body localized systems. <i>Physical Review B</i> , 2017, 95, .	1.1	23
27	Unsupervised Learning of Non-Hermitian Topological Phases. <i>Physical Review Letters</i> , 2021, 126, 240402.	2.9	22
28	Test of Einstein-Podolsky-Rosen Steering Based on the All-Versus-Nothing Proof. <i>Scientific Reports</i> , 2014, 4, 4291.	1.6	18
29	Statistical bubble localization with random interactions. <i>Physical Review B</i> , 2017, 95, .	1.1	18
30	Asymmetric Particle Transport and Light-Cone Dynamics Induced by Anyonic Statistics. <i>Physical Review Letters</i> , 2018, 121, 250404.	2.9	18
31	Bounds of concurrence and their relation with fidelity and frontier states. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 1616-1620.	0.9	15
32	Intrinsic decoherence in isolated quantum systems. <i>Physical Review B</i> , 2017, 95, .	1.1	15
33	Gisin's theorem for two $d$ -dimensional systems based on the Collins-Gisin-Linden-Masser-Popescu inequality. <i>Physical Review A</i> , 2008, 77, .	1.0	14
34	Quantum generative adversarial networks with multiple superconducting qubits. <i>Npj Quantum Information</i> , 2021, 7, .	2.8	14
35	Fault-tolerant quantum random-number generator certified by Majorana fermions. <i>Physical Review A</i> , 2013, 88, .	1.0	13
36	Solving the Liouvillian Gap with Artificial Neural Networks. <i>Physical Review Letters</i> , 2021, 126, 160401.	2.9	13

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37	Markovian Quantum Neuroevolution for Machine Learning. <i>Physical Review Applied</i> , 2021, 16, .	1.5	13
38	Proposal for observing non-Abelian statistics of Majorana-Shockley fermions in an optical lattice. <i>Physical Review B</i> , 2015, 91, .	1.1	11
39	Noise-induced collective quantum state preservation in spin qubit arrays. <i>Physical Review B</i> , 2016, 93, .	1.1	11
40	Tight correlation-function Bell inequality for multipartited-dimensional systems. <i>Physical Review A</i> , 2009, 79, .	1.0	10
41	Sample complexity of learning parametric quantum circuits. <i>Quantum Science and Technology</i> , 2022, 7, 025014.	2.6	9
42	Solving quantum master equations with deep quantum neural networks. <i>Physical Review Research</i> , 2022, 4, .	1.3	9
43	SO(4) symmetry in the relativistic hydrogen atom. <i>Physical Review A</i> , 2008, 77, .	1.0	8
44	Bell inequality for qubits based on the Cauchy-Schwarz inequality. <i>Physical Review A</i> , 2009, 79, .	1.0	8
45	Svetlichny's approach to detecting genuine multipartite entanglement in arbitrarily-high-dimensional systems by a Bell-type inequality. <i>Physical Review A</i> , 2009, 80, .	1.0	8
46	Detect genuine multipartite entanglement in the one-dimensional transverse-field Ising model. <i>Annals of Physics</i> , 2010, 325, 367-372.	1.0	8
47	Fault-Tolerant Greenberger-Horne-Zeilinger Paradox Based on Non-Abelian Anyons. <i>Physical Review Letters</i> , 2010, 105, 060402.	2.9	8
48	Artificial neural network based computation for out-of-time-ordered correlators. <i>Physical Review B</i> , 2020, 101, .	1.1	8
49	Quantum enhanced convolutional neural networks for NISQ computers. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	7
50	Quantum information scrambling in quantum many-body scarred systems. <i>Physical Review Research</i> , 2022, 4, .	1.3	7
51	Universal Adversarial Examples and Perturbations for Quantum Classifiers. <i>National Science Review</i> , 0, , .	4.6	6
52	Relevant multi-setting tight Bell inequalities for qubits and qutrits. <i>Annals of Physics</i> , 2009, 324, 1996-2003.	1.0	5
53	Sufficient and necessary condition of separability for generalized Werner states. <i>Annals of Physics</i> , 2009, 324, 408-413.	1.0	5
54	DETECTING EINSTEIN-PODOLSKY-ROSEN STEERING FOR CONTINUOUS VARIABLE WAVEFUNCTIONS. <i>International Journal of Quantum Information</i> , 2013, 11, 1350019.	0.6	5

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55	Proposed all-versus-nothing violation of local realism in the Kitaev spin-lattice model. Physical Review A, 2009, 79, .	1.0	4
56	Nonlocal distillation based on multisetting Bell inequality. Physical Review A, 2012, 86, .	1.0	4
57	Testing Leggett's Inequality Using Aharonov-Casher Effect. Scientific Reports, 2013, 3, 2492.	1.6	4
58	MAXIMAL QUANTUM VIOLATION OF THE CGLMP INEQUALITY ON ITS BOTH SIDES. International Journal of Quantum Information, 2008, 06, 1067-1076.	0.6	3
59	ENTANGLEMENT, PURITY AND VIOLATION OF BELL INEQUALITY. International Journal of Quantum Information, 2009, 07, 1313-1320.	0.6	3
60	Directly probing the Chern number of the Haldane model in optical lattices. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 2500.	0.9	3
61	Quantum Continual Learning Overcoming Catastrophic Forgetting. Chinese Physics Letters, 2022, 39, 050303.	1.3	3
62	Quantum contextuality for a relativistic spin-1/2 particle. Physical Review A, 2013, 87, .	1.0	2
63	Entangling nuclear spins by dissipation in a solid-state system. Physical Review A, 2020, 102, .	1.0	2
64	Anomalous quantum information scrambling for Z3 parafermion chains. Physical Review B, 2021, 103, .	1.1	2
65	Proposed Entanglement Swapping in Continuous Variable Systems via Braiding. Communications in Theoretical Physics, 2010, 54, 981-984.	1.1	1
66	Greenbergerâ€”Horneâ€”Zeilinger Paradox and Quantum Entanglement Swapping in One-Dimensional Lipkinâ€”Meshkovâ€”Glick Model. Communications in Theoretical Physics, 2010, 54, 663-666.	1.1	1
67	Experimental test of Leggett's inequalities with solid-state spins. Physical Review A, 2020, 102, .	1.0	0