Lin Tian

List of Publications by Year
in descending order

64 papers	5,367 citations	126907 33 h-index	118850 62 g-index
65 all docs	65 docs citations	65 times ranked	3108 citing authors

#	Article	IF	Citations
1	Extreme quantum nonlinearity in superfluid thin-film surface waves. Npj Quantum Information, 2021, 7, .	6.7	9
2	Robust preparation of many-body ground states in Jaynesâ€“Cummings lattices. Npj Quantum Information, 2021, 7, .	6.7	3
3	Generalized ultrastrong optomechanical-like coupling. Physical Review A, 2020, 101, .	2.5	25
4	Coherent phonon dynamics in spatially separated graphene mechanical resonators. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5582-5587.	7.1	40
5	Switchable bipartite and genuine tripartite entanglement via an optoelectromechanical interface. Physical Review A, 2020, 101, .	2.5	11
6	Reconstructing the ideal results of a perturbed analog quantum simulator. Physical Review A, 2018, 97, .	2.5	4
7	Optomechanical transistor with mechanical gain. Physical Review A, 2018, 97, .	2.5	32
8	Strong indirect coupling between graphene-based mechanical resonators via a phonon cavity. Nature Communications, 2018, 9, 383.	12.8	63
9	Topology-dependent quantum dynamics and entanglement-dependent topological pumping in superconducting qubit chains. Physical Review A, 2018, 98, .	2.5	17
10	Robust quantum state transfer via topological edge states in superconducting qubit chains. Physical Review A, 2018, 98, .	2.5	99
11	Manipulating counter-rotating interactions in the quantum Rabi model via modulation of the transition frequency of the two-level system. Physical Review A, 2017, 96, .	2.5	23
12	Single-photon-driven high-order sideband transitions in an ultrastrongly coupled circuit-quantum-electrodynamics system. Physical Review A, 2017, 96, .	2.5	90
13	Quantum phase transition in a multiconnected Jaynes-Cummings lattice. Physical Review B, 2017, 96, .	3.2	6
14	Nonreciprocal quantum-state conversion between microwave and optical photons. Physical Review A, 2017, 96, .	2.5	57
15	Optical directional amplification in a three-mode optomechanical system. Optics Express, 2017, 25, 18907.	3.4	61
16	Witnessing topological Weyl semimetal phase in a minimal circuit-QED lattice. Quantum Science and Technology, 2016, 1, 015006.	5.8	31
17	Generation of macroscopic SchrÃ¶dinger-cat states in qubit-oscillator systems. Physical Review A, 2016, 93, .	2.5	48
18	Cavity-assisted dynamical quantum phase transition at bifurcation points. Physical Review A, 2016, 93, .	2.5	7

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19	Macroscopic Quantum Superposition in Cavity Optomechanics. Physical Review Letters, 2016, 116, 163602.	7.8	139
20	Superconducting circuit probe for analog quantum simulators. Physical Review A, 2015, 92, .	2.5	6
21	Quantum phase transition in a multiconnected superconducting Jaynes-Cummings lattice. Physical Review B, 2015, 91, .	3.2	17
22	Cool and Heavy. Physics Magazine, 2015, 8, .	0.1	1
23	Optical wavelength conversion via optomechanical coupling in a silica resonator. Annalen Der Physik, 2015, 527, 100-106.	2.4	33
24	Steady-state mechanical squeezing in an optomechanical system via Duffing nonlinearity. Physical Review A, 2015, 91, .	2.5	165
25	Quantum coherence in ultrastrong optomechanics. Physical Review A, 2015, 91, .	2.5	52
26	Optoelectromechanical transducer: Reversible conversion between microwave and optical photons. Annalen Der Physik, 2015, 527, 1-14.	2.4	77
27	Coupling spin ensembles via superconducting flux qubits. Physical Review A, 2014, 89, .	2.5	32
28	Transmon-based simulator of nonlocal electron-phonon coupling: A platform for observing sharp small-polaron transitions. Physical Review B, 2014, 89, .	3.2	29
29	Protecting superconducting qubits with a universal quantum degeneracy point. Superconductor Science and Technology, 2013, 26, 114002.	3.5	5
30	Robust Photon Entanglement via Quantum Interference in Optomechanical Interfaces. Physical Review Letters, 2013, 110, 233602.	7.8	200
31	Quantum information processing with trapped electrons and superconducting electronics. New Journal of Physics, 2013, 15, 073017.	2.9	20
32	Analog superconducting quantum simulator for Holstein polarons. Physical Review B, 2013, 88, .	3.2	50
33	Parametric four-wave mixing toolbox for superconducting resonators. Physical Review B, 2012, 86, .	3.2	10
34	Adiabatic State Conversion and Pulse Transmission in Optomechanical Systems. Physical Review Letters, 2012, 108, 153604.	7.8	260
35	Storing Optical Information as a Mechanical Excitation in a Silica Optomechanical Resonator. Physical Review Letters, 2011, 107, 133601.	7.8	301
36	Deterministic Generation of Entangled Photons in Superconducting Resonator Arrays. Physical Review Letters, 2011, 106, 257002.	7.8	44

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37	Cavity cooling of a mechanical resonator in the presence of a two-level-system defect. Physical Review B, 2011, 84, .	3.2	25
38	Optical wavelength conversion of quantum states with optomechanics. Physical Review A, 2010, 82, .	2.5	152
39	Circuit QED and Sudden Phase Switching in a Superconducting Qubit Array. Physical Review Letters, 2010, 105, 167001.	7.8	35
40	A Controllable Interaction Between Two-Level Systems Inside a Josephson Junction. IEEE Transactions on Applied Superconductivity, 2009, 19, 953-956.	1.7	2
41	Ground state cooling of a nanomechanical resonator via parametric linear coupling. Physical Review B, 2009, 79, .	3.2	37
42	Quantum manipulation of low-frequency fluctuators by superconducting resonator. Physical Review B, 2009, 79, .	3.2	6
43	Engineering Superposition States and Tailored Probes for Nanoresonators via Open-Loop Control. Physical Review Letters, 2009, 102, 057208.	7.8	37
44	Observation of Bogoliubov excitations in exciton-polariton condensates. Nature Physics, 2008, 4, 700-705.	16.7	245
45	Strongly correlated polaritons in a two-dimensional array of photonic crystal microcavities. Physical Review A, 2008, 77, .	2.5	79
46	Parametric coupling between macroscopic quantum resonators. New Journal of Physics, 2008, 10, 115001.	2.9	65
47	Correcting Low-Frequency Noise with Continuous Measurement. Physical Review Letters, 2007, 98, 153602.	7.8	9
48	Josephson Junction Microscope for Low-Frequency Fluctuators. Physical Review Letters, 2007, 99, 137002.	7.8	26
49	Scheme for quantum teleportation between nanomechanical modes. Physical Review B, 2006, 74, .	3.2	11
50	Scalable ion trap quantum computing without moving ions. European Physical Journal D, 2005, 32, 201-208.	1.3	6
51	Entanglement from a nanomechanical resonator weakly coupled to a single Cooper-pair box. Physical Review B, 2005, 72, .	3.2	57
52	Coupled Ion-Nanomechanical Systems. Physical Review Letters, 2004, 93, 266403.	7.8	155
53	Interfacing Quantum-Optical and Solid-State Qubits. Physical Review Letters, 2004, 92, 247902.	7.8	123
54	Ground-state cooling of mechanical resonators. Physical Review B, 2004, 69, .	3.2	157

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55	A quantum optics approach to quantum state engineering and measurement in nano-mechanical structures. , 2004, 5468, 180.		0
56	Quantum computing with atomic Josephson junction arrays. Physical Review A, 2003, 68, .	2.5	29
57	Optical Pumping of Quantum-Dot Nuclear Spins. Physical Review Letters, 2003, 91, 017402.	7.8	149
58	Projective measurement scheme for solid-state qubits. Physical Review B, 2003, 67, .	3.2	3
59	Decoherence and relaxation of a superconducting quantum bit during measurement. Physical Review B, 2002, 65, .	3.2	64
60	Engineering the quantum measurement process for the persistent current qubit. Physica C: Superconductivity and Its Applications, 2002, 368, 294-299.	1.2	11
61	Resonant cancellation of off-resonant effects in a multilevel qubit. Physical Review A, 2000, 62, .	2.5	48
62	Decoherence of the Superconducting Persistent Current Qubit. , 2000, , 429-438.		12
63	Superconducting persistent-current qubit. Physical Review B, 1999, 60, 15398-15413.	3.2	597
64	Josephson Persistent-Current Qubit. Science, 1999, 285, 1036-1039.	12.6	1,160