

Peng-Bo Li

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Exponentially Enhanced Light-Matter Interaction, Cooperativities, and Steady-State Entanglement Using Parametric Amplification. <i>Physical Review Letters</i> , 2018, 120, 093601.	7.8	158
2	Hybrid Quantum Device with Nitrogen-Vacancy Centers in Diamond Coupled to Carbon Nanotubes. <i>Physical Review Letters</i> , 2016, 117, 015502.	7.8	127
3	Hybrid Quantum Device Based on N Centers in Diamond Nanomechanical Resonators Plus Superconducting Waveguide Cavities. <i>Physical Review Applied</i> , 2015, 4, .	3.8	71
4	Enhancing Spin-Phonon and Spin-Spin Interactions Using Linear Resources in a Hybrid Quantum System. <i>Physical Review Letters</i> , 2020, 125, 153602.	7.8	63
5	Quantum-information transfer with nitrogen-vacancy centers coupled to a whispering-gallery microresonator. <i>Physical Review A</i> , 2011, 83, .	2.5	61
6	Quantum-information transfer in a coupled resonator waveguide. <i>Physical Review A</i> , 2009, 79, .	2.5	57
7	Dissipative preparation of entangled states between two spatially separated nitrogen-vacancy centers. <i>Physical Review A</i> , 2012, 85, .	2.5	57
8	Hybrid Quantum System with Nitrogen-Vacancy Centers in Diamond Coupled to Surface-Phonon Polaritons in Piezomagnetic Superlattices. <i>Physical Review Applied</i> , 2018, 10, .	3.8	33
9	Quantum microwave-optical interface with nitrogen-vacancy centers in diamond. <i>Physical Review A</i> , 2017, 96, .	2.5	32
10	Engineering two-mode entangled states between two superconducting resonators by dissipation. <i>Physical Review A</i> , 2012, 86, .	2.5	29
11	Preparing multiparticle entangled states of nitrogen-vacancy centers via adiabatic ground-state transitions. <i>Physical Review A</i> , 2018, 98, .	2.5	29
12	Unconventional Quantum Sound-Matter Interactions in Spin-Optomechanical-Crystal Hybrid Systems. <i>Physical Review Letters</i> , 2021, 126, 203601.	7.8	28
13	Dissipation-assisted generation of steady-state single-mode squeezing of collective excitations in a solid-state spin ensemble. <i>Physical Review A</i> , 2013, 88, .	2.5	26
14	Phononic-waveguide-assisted steady-state entanglement of silicon-vacancy centers. <i>Physical Review A</i> , 2020, 101, .	2.5	23
15	Controllable generation of two-mode-entangled states in two-resonator circuit QED with a single gap-tunable superconducting qubit. <i>Physical Review A</i> , 2014, 90, .	2.5	21
16	Simulation of topological phases with color center arrays in phononic crystals. <i>Physical Review Research</i> , 2020, 2, .	3.6	21
17	Robust continuous-variable entanglement of microwave photons with cavity electromechanics. <i>Physical Review A</i> , 2013, 88, .	2.5	19
18	Simulating the Lipkin-Meshkov-Glick model in a hybrid quantum system. <i>Physical Review A</i> , 2017, 96, .	2.5	19

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19	Deterministic generation of multiparticle entanglement in a coupled cavity-fiber system. <i>Optics Express</i> , 2011, 19, 1207.	3.4	18
20	Multiphonon interactions between nitrogen-vacancy centers and nanomechanical resonators. <i>Physical Review A</i> , 2019, 100, .	2.5	16
21	Interfacing a Topological Qubit with a Spin Qubit in a Hybrid Quantum System. <i>Physical Review Applied</i> , 2019, 11, .	3.8	16
22	Nonreciprocal Phonon Blockade in a Spinning Acoustic Ring Cavity Coupled to a Two-Level System. <i>Physical Review Applied</i> , 2022, 17, .	3.8	16
23	Generation of two-mode field squeezing through selective dynamics in cavity QED. <i>Physical Review A</i> , 2008, 77, .	2.5	15
24	Enhanced electromechanical coupling of a nanomechanical resonator to coupled superconducting cavities. <i>Scientific Reports</i> , 2016, 6, 19065.	3.3	15
25	Preparing entangled states between two NV centers via the damping of nanomechanical resonators. <i>Scientific Reports</i> , 2017, 7, 14116.	3.3	14
26	Preparing ground states and squeezed states of nanomechanical cantilevers by fast dissipation. <i>Physical Review A</i> , 2014, 90, .	2.5	13
27	Coupling a single nitrogen-vacancy center with a superconducting qubit via the electro-optic effect. <i>Physical Review A</i> , 2018, 97, .	2.5	13
28	The NV metamaterial: Tunable quantum hyperbolic metamaterial using nitrogen vacancy centers in diamond. <i>Physical Review B</i> , 2021, 104, .	3.2	13
29	Dark-state polaritons for quantum memory in a five-level M-type atomic ensemble. <i>Physical Review A</i> , 2006, 73, .	2.5	12
30	Simulation of topological Zak phase in spin-phononic crystal networks. <i>Physical Review Research</i> , 2021, 3, .	3.6	12
31	Enhancing spin-photon coupling with a micromagnet. <i>Physical Review A</i> , 2021, 103, .	2.5	12
32	Controlled generation of field squeezing with cold atomic clouds coupled to a superconducting transmission line resonator. <i>Physical Review A</i> , 2010, 81, .	2.5	11
33	Geometrical parameters controlled focusing and enhancing near field in infinite circular metal-dielectric multilayered cylinder. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	11
34	Coherent frequency down-conversions and entanglement generation in a Sagnac interferometer. <i>Optics Express</i> , 2017, 25, 16151.	3.4	10
35	Dissipation-assisted preparation of steady spin-squeezed states of SiV centers. <i>Physical Review A</i> , 2021, 103, .	2.5	9
36	Generation of Ising interaction and cluster states in a one-dimensional coupled resonator waveguide. <i>European Physical Journal D</i> , 2009, 55, 205-209.	1.3	8

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37	Engineering two-mode continuous-variable entangled states of distant atomic spin ensembles with superconducting quantum circuits. <i>Physical Review A</i> , 2012, 85, .	2.5	8
38	Generation of squeezed states in coupled cavity chains via dissipation of gap-tunable qubits. <i>Physical Review A</i> , 2014, 90, .	2.5	8
39	Fifth-order nonlinearity and 3-qubit phase gate in a five-level tripod atomic system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, 504.	2.1	7
40	Engineering squeezed states of microwave radiation with circuit quantum electrodynamics. <i>Physical Review A</i> , 2011, 83, .	2.5	7
41	Generation of two-mode entanglement between separated cavities. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 189.	2.1	6
42	Preparing Squeezed Spin States in a Spin-Mechanical Hybrid System with Silicon Vacancy Centers. <i>Advanced Quantum Technologies</i> , 2020, 3, 2000034.	3.9	6
43	Generation of Greenberger-Horne-Zeilinger states for silicon-vacancy centers using a decoherence-free subspace. <i>Physical Review A</i> , 2022, 105, .	2.5	6
44	Generation and replication of continuous-variable quadripartite cluster and Greenberger-Horne-Zeilinger states in four chains of superconducting transmission line resonators. <i>Physical Review A</i> , 2016, 93, .	2.5	5
45	Generation of multiparticle entangled states of nitrogen-vacancy centers with carbon nanotubes. <i>Quantum Information Processing</i> , 2020, 19, 1.	2.2	5
46	Effective generation of polarization-entangled photon pairs in a cavity-QED system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 5959-5963.	2.1	4
47	Engineering two-mode squeezed states of cold atomic clouds with a superconducting stripline resonator. <i>Optics Communications</i> , 2011, 284, 294-296.	2.1	4
48	Proposal for a quantum delayed-choice experiment with a spin-mechanical setup. <i>Physical Review A</i> , 2016, 94, .	2.5	4
49	Preparation of entangled states of microwave photons in a hybrid system via the electro-optic effect. <i>Optics Express</i> , 2017, 25, 28305.	3.4	4
50	Chiral spin-phonon bound states and spin-spin interactions with phononic lattices. <i>Physical Review Research</i> , 2022, 4, .	3.6	4
51	QUANTUM PHASE GATES WITH TRAPPED ATOMS COUPLING TO A SUPERCONDUCTING TRANSMISSION LINE RESONATOR. <i>International Journal of Quantum Information</i> , 2011, 09, 583-591.	1.1	3
52	One-step generation of Greenberger-Horne-Zeilinger states of multi solid-state spin qubits. <i>Journal of Modern Optics</i> , 2012, 59, 1617-1623.	1.3	3
53	Quantum information transfer with hybrid NV center-photon qubit encoding. <i>Journal of Modern Optics</i> , 2015, 62, 487-492.	1.3	2
54	Two-mode squeezing generation in hybrid chains of superconducting resonators and nitrogen-vacancy-center ensembles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 035504.	1.5	2

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55	Entangling a single NV centre with a superconducting qubit via parametric couplings between photons and phonons in a hybrid system. <i>Journal of Modern Optics</i> , 2016, 63, 2173-2179.	1.3	2
56	Strong Two-Phonon Correlations and Bound States in the Continuum in Phononic Waveguides with Embedded SiV Centers. <i>Advanced Quantum Technologies</i> , 2021, 4, 2100074.	3.9	2
57	Vortex-phonon-spin tripartite entanglement in a hybrid quantum system. <i>Quantum Information Processing</i> , 2021, 20, 1.	2.2	2
58	Quantum interferences in four-wave mixing processes inside a cavity driven by quantized fields. <i>Chinese Physics B</i> , 2011, 20, 054202.	1.4	1
59	The Nonlinear Saturation Absorption of Nanometric Metallic Shell Controlled by the Local Dielectric Constant and Shell Thickness. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 2595-2599.	0.4	1
60	Efficient scheme for entangled states and quantum information transfer with trapped atoms in a resonator. <i>Chinese Physics B</i> , 2011, 20, 090304.	1.4	1
61	REALIZATION OF FAST QUANTUM INFORMATION TRANSFER AND ENTANGLEMENT WITH SUPERCONDUCTING FLUX QUBITS COUPLED TO A RESONATOR. <i>International Journal of Quantum Information</i> , 2013, 11, 1350040.	1.1	0