Peng-Bo Li

List of Publications by Citations

56 papers	795 citations	15 h-index	26 g-index
61 ext. papers	1,060 ext. citations	2.9 avg, IF	4.58 L-index

#	Paper	IF	Citations
56	Exponentially Enhanced Light-Matter Interaction, Cooperativities, and Steady-State Entanglement Using Parametric Amplification. *Physical Review Letters*, **2018**, 120, 093601	7.4	92
55	Hybrid Quantum Device with Nitrogen-Vacancy Centers in Diamond Coupled to Carbon Nanotubes. *Physical Review Letters*, **2016**, 117, 015502	7.4	84
54	Quantum-information transfer with nitrogen-vacancy centers coupled to a whispering-gallery microresonator. *Physical Review A*, **2011**, 83,	2.6	56
53	Hybrid Quantum Device Based on NV Centers in Diamond Nanomechanical Resonators Plus Superconducting Waveguide Cavities. *Physical Review Applied*, **2015**, 4,	4.3	53
52	Quantum-information transfer in a coupled resonator waveguide. *Physical Review A*, **2009**, 79,	2.6	53
51	Dissipative preparation of entangled states between two spatially separated nitrogen-vacancy centers. *Physical Review A*, **2012**, 85,	2.6	49
50	Hybrid Quantum System with Nitrogen-Vacancy Centers in Diamond Coupled to Surface-Phonon Polaritons in Piezomagnetic Superlattices. *Physical Review Applied*, **2018**, 10,	4.3	23
49	Engineering two-mode entangled states between two superconducting resonators by dissipation. *Physical Review A*, **2012**, 86,	2.6	23
48	Dissipation-assisted generation of steady-state single-mode squeezing of collective excitations in a solid-state spin ensemble. *Physical Review A*, **2013**, 88,	2.6	23
47	Enhancing Spin-Phonon and Spin-Spin Interactions Using Linear Resources in a Hybrid Quantum System. *Physical Review Letters*, **2020**, 125, 153602	7.4	23
46	Controllable generation of two-mode-entangled states in two-resonator circuit QED with a single gap-tunable superconducting qubit. *Physical Review A*, **2014**, 90,	2.6	19
45	Robust continuous-variable entanglement of microwave photons with cavity electromechanics. *Physical Review A*, **2013**, 88,	2.6	18
44	Preparing multiparticle entangled states of nitrogen-vacancy centers via adiabatic ground-state transitions. *Physical Review A*, **2018**, 98,	2.6	18
43	Deterministic generation of multiparticle entanglement in a coupled cavity-fiber system. *Optics Express*, **2011**, 19, 1207-16	3.3	17
42	Quantum microwave-optical interface with nitrogen-vacancy centers in diamond. *Physical Review A*, **2017**, 96,	2.6	15
41	Generation of two-mode field squeezing through selective dynamics in cavity QED. *Physical Review A*, **2008**, 77,	2.6	15
40	Enhanced electromechanical coupling of a nanomechanical resonator to coupled superconducting cavities. *Scientific Reports*, **2016**, 6, 19065	4.9	12

39	Simulating the Lipkin-Meshkov-Glick model in a hybrid quantum system. *Physical Review A*, **2017**, 96,	2.6	12
38	Controlled generation of field squeezing with cold atomic clouds coupled to a superconducting transmission line resonator. *Physical Review A*, **2010**, 81,	2.6	11
37	Dark-state polaritons for quantum memory in a five-level M-type atomic ensemble. *Physical Review A*, **2006**, 73,	2.6	11
36	Preparing entangled states between two NV centers via the damping of nanomechanical resonators. *Scientific Reports*, **2017**, 7, 14116	4.9	10
35	Phononic-waveguide-assisted steady-state entanglement of silicon-vacancy centers. *Physical Review A*, **2020**, 101,	2.6	10
34	Geometrical parameters controlled focusing and enhancing near field in infinite circular metal-dielectric multilayered cylinder. *Applied Physics Letters*, **2013**, 102, 123107	3.4	10
33	Simulation of topological phases with color center arrays in phononic crystals. *Physical Review Research*, **2020**, 2,	3.9	10
32	Interfacing a Topological Qubit with a Spin Qubit in a Hybrid Quantum System. *Physical Review Applied*, **2019**, 11,	4.3	9
31	Preparing ground states and squeezed states of nanomechanical cantilevers by fast dissipation. *Physical Review A*, **2014**, 90,	2.6	8
30	Engineering two-mode continuous-variable entangled states of distant atomic spin ensembles with superconducting quantum circuits. *Physical Review A*, **2012**, 85,	2.6	8
29	Generation of Ising interaction and cluster states in a one-dimensional coupled resonator waveguide. *European Physical Journal D*, **2009**, 55, 205-209	1.3	8
28	Multiphonon interactions between nitrogen-vacancy centers and nanomechanical resonators. *Physical Review A*, **2019**, 100,	2.6	7
27	Generation of squeezed states in coupled cavity chains via dissipation of gap-tunable qubits. *Physical Review A*, **2014**, 90,	2.6	7
26	Coherent frequency down-conversions and entanglement generation in a Sagnac interferometer. *Optics Express*, **2017**, 25, 16151-16170	3.3	7
25	Coupling a single nitrogen-vacancy center with a superconducting qubit via the electro-optic effect. *Physical Review A*, **2018**, 97,	2.6	7
24	Fifth-order nonlinearity and 3-qubit phase gate in a five-level tripod atomic system. *Journal of the Optical Society of America B: Optical Physics*, **2008**, 25, 504	1.7	6
23	Unconventional Quantum Sound-Matter Interactions in Spin-Optomechanical-Crystal Hybrid Systems. *Physical Review Letters*, **2021**, 126, 203601	7.4	6
22	Preparing Squeezed Spin States in a Spin–Mechanical Hybrid System with Silicon-Vacancy Centers. *Advanced Quantum Technologies*, **2020**, 3, 2000034	4.3	5

21	Engineering squeezed states of microwave radiation with circuit quantum electrodynamics. *Physical Review A*, **2011**, 83,	2.6	5
20	Generation of two-mode entanglement between separated cavities. *Journal of the Optical Society of America B: Optical Physics*, **2009**, 26, 189	1.7	5
19	Engineering two-mode squeezed states of cold atomic clouds with a superconducting stripline resonator. *Optics Communications*, **2011**, 284, 294-296	2	4
18	Effective generation of polarization-entangled photon pairs in a cavity-QED system. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2008**, 372, 5959-5963	2.3	4
17	Generation and replication of continuous-variable quadripartite cluster and Greenberger-Horne-Zeilinger states in four chains of superconducting transmission line resonators. *Physical Review A*, **2016**, 93,	2.6	3
16	One-step generation of Greenberger□Horne□Zeilinger states of multi solid-state spin qubits. *Journal of Modern Optics*, **2012**, 59, 1617-1623	1.1	3
15	QUANTUM PHASE GATES WITH TRAPPED ATOMS COUPLING TO A SUPERCONDUCTING TRANSMISSION LINE RESONATOR. *International Journal of Quantum Information*, **2011**, 09, 583-591	0.8	3
14	Proposal for a quantum delayed-choice experiment with a spin-mechanical setup. *Physical Review A*, **2016**, 94,	2.6	3
13	Two-mode squeezing generation in hybrid chains of superconducting resonators and nitrogen-vacancy-center ensembles. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2015**, 48, 035504	1.3	2
12	Preparation of entangled states of microwave photons in a hybrid system via the electro-optic effect. *Optics Express*, **2017**, 25, 28305	3.3	2
11	Quantum information transfer with hybrid NV center-photon qubit encoding. *Journal of Modern Optics*, **2015**, 62, 487-492	1.1	2
10	Enhancing spin-photon coupling with a micromagnet. *Physical Review A*, **2021**, 103,	2.6	2
9	Entangling a single NV centre with a superconducting qubit via parametric couplings between photons and phonons in a hybrid system. *Journal of Modern Optics*, **2016**, 63, 2173-2179	1.1	2
8	Dissipation-assisted preparation of steady spin-squeezed states of SiV centers. *Physical Review A*, **2021**, 103,	2.6	2
7	Simulation of topological Zak phase in spin-phononic crystal networks. *Physical Review Research*, **2021**, 3,	3.9	2
6	Generation of multiparticle entangled states of nitrogen-vacancy centers with carbon nanotubes. *Quantum Information Processing*, **2020**, 19, 1	1.6	1
5	Quantum interferences in four-wave mixing processes inside a cavity driven by quantized fields. *Chinese Physics B*, **2011**, 20, 054202	1.2	1
4	Efficient scheme for entangled states and quantum information transfer with trapped atoms in a resonator. *Chinese Physics B*, **2011**, 20, 090304	1.2	1

3	Vortex–photon–spin tripartite entanglement in a hybrid quantum system. *Quantum Information Processing*, **2021**, 20, 1	1.6	0
2	Strong Two-Phonon Correlations and Bound States in the Continuum in Phononic Waveguides with Embedded SiV Centers. *Advanced Quantum Technologies*, **2021**, 4, 2100074	4.3	0
1	REALIZATION OF FAST QUANTUM INFORMATION TRANSFER AND ENTANGLEMENT WITH SUPERCONDUCTING FLUX QUBITS COUPLED TO A RESONATOR. *International Journal of Quantum Information*, **2013**, 11, 1350040	0.8	