## Circuit quantum electrodynamics

Reviews of Modern Physics 93, DOI: 10.1103/revmodphys.93.025005

## **Citation Report**

#	Article	IF	CITATIONS
1	Gate-based superconducting quantum computing. Journal of Applied Physics, 2021, 129, .	2.5	46
2	Tailoring the Environment—Cavity QED. Graduate Texts in Physics, 2021, , 187-228.	0.2	0
3	Effective and Efficient Resonant Transitions in Periodically Modulated Quantum Systems. Quantum Reports, 2021, 3, 173-195.	1.3	1
4	Transport of pseudothermal photons through an anharmonic cavity. Scientific Reports, 2021, 11, 8328.	3.3	0
5	Realising and compressing quantum circuits with quantum reservoir computing. Communications Physics, 2021, 4, .	5.3	25
6	Validity of Born-Markov master equations for single- and two-qubit systems. Physical Review B, 2021, 103, .	3.2	8
7	Signatures of self-trapping in the driven-dissipative Bose–Hubbard dimer. New Journal of Physics, 2021, 23, 063056.	2.9	6
8	Controls of a superconducting quantum parametron under a strong pump field. Scientific Reports, 2021, 11, 11459.	3.3	17
9	Quantum simulation of light-front parton correlators. Physical Review D, 2021, 104, .	4.7	15
10	Engineering Purely Nonlinear Coupling between Superconducting Qubits Using a Quarton. Physical Review Letters, 2021, 127, 050502.	7.8	8
11	Hidden symmetry in the biased Dicke model. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 325202.	2.1	8
12	Quantum and thermal fluctuations in the dynamics of a resistively and capacitively shunted Josephson junction. Physical Review B, 2021, 104, .	3.2	4
13	Silicon photonic quantum computing with spin qubits. APL Photonics, 2021, 6, .	5.7	22
14	One-Photon Solutions to the Multiqubit Multimode Quantum Rabi Model for Fast <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow> <mml:mi> W </mml:mi> </mml:mrow> </mml:math> -State Generation. Physical Review Letters, 2021, 127, 043604	7.8	17
15	The Renewed Role of Sweep Functions in Noisy Shortcuts to Adiabaticity. Entropy, 2021, 23, 897.	2.2	1
16	Darlington pair of quantum thermal transistors. Physical Review B, 2021, 104, .	3.2	16
17	Exact k -body representation of the Jaynes-Cummings interaction in the dressed basis: Insight into many-body phenomena with light. Physical Review A, 2021, 104, .	2.5	7
18	Topological Photonics on Superconducting Quantum Circuits with Parametric Couplings. Advanced Quantum Technologies, 2021, 4, 2100017.	3.9	5

TION REI

#	Article	IF	Citations
19	Hidden symmetry operators for asymmetric generalized quantum Rabi models. Chinese Physics B, 2022, 31, 014210.	1.4	6
20	Counteracting dephasing in Molecular Nanomagnets by optimized qudit encodings. Npj Quantum Information, 2021, 7, .	6.7	20
21	Suppression of Static <mml:math <br="" display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML">overflow="scroll"&gt;<mml:mi>Z</mml:mi>ZZ</mml:math> Interaction in an All-Transmon Quantum Processor. Physical Review Applied, 2021, 16, .	3.8	22
22	Ground-state cooling of a mechanical oscillator via a hybrid electro-optomechanical system. Physical Review A, 2021, 104, .	2.5	7
23	Energy-participation quantization of Josephson circuits. Npj Quantum Information, 2021, 7, .	6.7	41
24	Entanglement of a pair of quantum emitters via continuous fluorescence measurements: a tutorial. Advances in Optics and Photonics, 2021, 13, 517.	25.5	2
25	Quantum control of bosonic modes with superconducting circuits. Science Bulletin, 2021, 66, 1789-1805.	9.0	45
26	Generalized adiabatic approximation to the quantum Rabi model. Physical Review A, 2021, 104, .	2.5	9
27	Frustration-induced anomalous transport and strong photon decay in waveguide QED. Physical Review Research, 2021, 3, .	3.6	4
28	Robust Shadow Estimation. PRX Quantum, 2021, 2, .	9.2	51
29	Equivalence of Dissipative and Dissipationless Dynamics of Interacting Quantum Systems With Its Application to the Unitary Fermi Gas. Frontiers in Physics, 2021, 9, .	2.1	0
30	Testing complementarity on a transmon quantum processor. Physical Review A, 2021, 104, .	2.5	4
31	Coupling-modulation–mediated generation of stable entanglement of superconducting qubits via dissipation. Europhysics Letters, 2021, 135, 63001.	2.0	6
33	A Method to Compute the Schrieffer–Wolff Generator for Analysis of Quantum Memory. Entropy, 2021, 23, 1260.	2.2	0
34	Generalized adiabatic approximation to the asymmetric quantum Rabi model: conical intersections and geometric phases. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 405201.	2.1	7
35	Theoretical study of reflection spectroscopy for superconducting quantum parametrons. New Journal of Physics, 2021, 23, 093023.	2.9	7
36	Moving beyond the Transmon: Noise-Protected Superconducting Quantum Circuits. PRX Quantum, 2021, 2, .	9.2	43
37	Engineering Dissipation with Resistive Elements in Circuit Quantum Electrodynamics. Advanced	3.9	11

#	Article	IF	CITATIONS
38	Quantum resources of the steady-state of three coupled qubits: Microscopic versus phenomenological model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 415, 127651.	2.1	1
39	Rapid and unconditional parametric reset protocol for tunable superconducting qubits. Nature Communications, 2021, 12, 5924.	12.8	22
40	Photon Condensation and Enhanced Magnetism in Cavity QED. Physical Review Letters, 2021, 127, 167201.	7.8	20
41	Quantum-dot-based deterministic photon–emitter interfaces for scalable photonic quantum technology. Nature Nanotechnology, 2021, 16, 1308-1317.	31.5	85
42	Stabilization of Qubit Relaxation Rates by Frequency Modulation. Physical Review Applied, 2021, 16, .	3.8	2
43	Lamb Shift and the Vacuum Rabi Splitting in a Strongly Dissipative Environment. Journal of Physical Chemistry Letters, 2021, 12, 9919-9925.	4.6	6
44	Cavity-mediated electron hopping in disordered quantum Hall systems. Physical Review B, 2021, 104, .	3.2	26
45	Material matters in superconducting qubits. Materials Science and Engineering Reports, 2021, 146, 100646.	31.8	32
46	Developing SLH Theory for Use with Microwave Circuits. , 2021, , .		0
47	Quantum transient heat transport in the hyperparametric oscillator. Physical Review A, 2021, 104, .	2.5	1
48	Practical Guide for Building Superconducting Quantum Devices. PRX Quantum, 2021, 2, .	9.2	29
49	Level attraction and idler resonance in a strongly driven Josephson cavity. Physical Review Research, 2021, 3, .	3.6	5
50	Geometric Superinductance Qubits: Controlling Phase Delocalization across a Single Josephson Junction. PRX Quantum, 2021, 2, .	9.2	13
51	Scqubits: a Python package for superconducting qubits. Quantum - the Open Journal for Quantum Science, 0, 5, 583.	0.0	25
52	Miniaturizing Transmon Qubits Using van der Waals Materials. Nano Letters, 2021, 21, 10122-10126.	9.1	12
53	Charge-Noise Insensitive Chiral Photonic Interface for Waveguide Circuit QED. Physical Review Letters, 2021, 127, 233601.	7.8	13
54	Coupler-Assisted Controlled-Phase Gate with Enhanced Adiabaticity. Physical Review Applied, 2021, 16, .	3.8	14
55	GHZ-like states in the Qubit-Qudit Rabi model. SciPost Physics, 2021, 11, .	4.9	3

	CITATION R	CITATION REPORT	
#	ARTICLE	IF	CITATIONS
56	Entangling operations in nonlinear two-atom Tavis-Cummings models. Physical Review A, 2021, 104, .	2.5	1
57	Shortcuts to adiabaticity for open systems in circuit quantum electrodynamics. Nature Communications, 2022, 13, 188.	12.8	11
58	Group delay controls of the photons transmitting through two cavities coupled by an artificial atomic ensemble: controllable electromagnetically induced transparency-like effects. Optics Express, 2022, 30, 721.	3.4	2
59	Mimicking an Information Reservoir by Superconducting Quantum Circuits. , 2021, , .		3
60	Photonic rogue waves in a strongly dispersive coupled-cavity array involving self-attractive Kerr nonlinearity. Physical Review A, 2022, 105, .	2.5	7
61	Sequential Generation of Projected Entangled-Pair States. Physical Review Letters, 2022, 128, 010607.	7.8	18
62	Closed-System Solution of the 1D Atom from Collision Model. Entropy, 2022, 24, 151.	2.2	5
63	Deep-Neural-Network Discrimination of Multiplexed Superconducting-Qubit States. Physical Review Applied, 2022, 17, .	3.8	14
64	Darkâ $\in$ State Induced Quantum Nonreciprocity. Advanced Quantum Technologies, 2022, 5, .	3.9	8
65	Bosonic indistinguishability-dependent contextuality. Physical Review A, 2022, 105, .	2.5	2
66	Dynamical Casimir effect via modulated Kerr or higher-order nonlinearities. Physical Review A, 2022, 105, .	2.5	3
67	Dual-channel scattering problem in the cavity-like potential. European Journal of Physics, 0, , .	0.6	1
68	Phase-modulated single-photon nonreciprocal transport and directional router in a waveguide–cavity–emitter system beyond the chiral coupling. Quantum Science and Technology, 2022, 7, 015025.	5.8	16
69	Stabilization of Multimode SchrĶdinger Cat States Via Normal-Mode Dissipation Engineering. PRX Quantum, 2022, 3, .	9.2	10
70	Optimizing quantum control pulses with complex constraints and few variables through autodifferentiation. Physical Review A, 2022, 105, .	2.5	5
71	Strain-spectroscopy of strongly interacting defects in superconducting qubits. Superconductor Science and Technology, 2022, 35, 035005.	3.5	3
72	Building a large-scale quantum computer with continuous-variable optical technologies. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 012001.	1.5	21
73	Low-Symmetry Nanophotonics. ACS Photonics, 2022, 9, 2-24.	6.6	13

#	Article	IF	CITATIONS
74	Two-photon-interaction effects in the bad-cavity limit. Physical Review A, 2022, 105, .	2.5	5
75	Optimal control of stimulated Raman adiabatic passage in a superconducting qudit. Npj Quantum Information, 2022, 8, .	6.7	18
76	Magnetic field robust high quality factor NbTiN superconducting microwave resonators. Materials for Quantum Technology, 2022, 2, 015002.	3.1	5
77	Quantum Otto cycle in a superconducting cavity in the nonadiabatic regime. Physical Review A, 2022, 105, .	2.5	6
78	A Sub-GHz Impedance-Engineered Parametric Amplifier for the Readout of Sensors and Quantum Dots. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-6.	1.7	0
79	Inductive microwave response of Yu-Shiba-Rusinov states. Physical Review B, 2022, 105, .	3.2	7
80	Intrinsic mechanisms for drive-dependent Purcell decay in superconducting quantum circuits. Physical Review Research, 2021, 3, .	3.6	8
81	Observing crossover between quantum speed limits. Science Advances, 2021, 7, eabj9119.	10.3	17
82	High-fidelity Storage and On-demand Retrieval of Quantum States via a Microwave Waveguide. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.5	0
83	Tripartite high-dimensional magnon-photon entanglement in phases with broken <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:mi mathvariant="script"&gt;PT -symmetry of a non-Hermitian hybrid system. Physical Review B. 2022. 105</mml:mi </mml:math 	3.2	8
84	Electrometry of a single resonator mode at a Rydberg-atom–superconducting-circuit interface. Physical Review A, 2022, 105, .	2.5	1
85	Building a Fault-Tolerant Quantum Computer Using Concatenated Cat Codes. PRX Quantum, 2022, 3, .	9.2	101
86	Ultrastrong coupling of a qubit with a nonlinear optical resonator. Physical Review A, 2022, 105, .	2.5	0
87	Tuning nonequilibrium heat current and two-photon statistics via composite qubit-resonator interaction. Physical Review Research, 2022, 4, .	3.6	8
88	Characterizing topological phase of superlattices in superconducting circuits. Chinese Physics B, O, , .	1.4	0
89	Polariton condensation into vortex states in the synthetic magnetic field of a strained honeycomb lattice. SciPost Physics, 2022, 12, .	4.9	3
90	Crosstalk analysis for simultaneously driven two-qubit gates in spin qubit arrays. Physical Review B, 2022, 105, .	3.2	5
91	Chiral quantum optics with giant atoms. Physical Review A, 2022, 105, .	2.5	41

#	Article	IF	CITATIONS
92	Drive-induced nonlinearities of cavity modes coupled to a transmon ancilla. Physical Review A, 2022, 105, .	2.5	11
93	Geometric phase in a dissipative Jaynes-Cummings model: Theoretical explanation for resonance robustness. Physical Review A, 2022, 105, .	2.5	4
94	Photon-pair blockade in a Josephson-photonics circuit with two nondegenerate microwave resonators. New Journal of Physics, 2022, 24, 053001.	2.9	4
95	Circuit quantization with time-dependent magnetic fields for realistic geometries. Npj Quantum Information, 2022, 8, .	6.7	18
96	Switchable selective interactions in a Dicke model with a driven biased term. Physical Review E, 2022, 105, 034125.	2.1	1
97	Disentangling Pauli Blocking of Atomic Decay from Cooperative Radiation and Atomic Motion in a 2D Fermi Gas. Physical Review Letters, 2022, 128, 093001.	7.8	2
98	Spatial, spin, and charge symmetry projections for a Fermi-Hubbard model on a quantum computer. Physical Review A, 2022, 105, .	2.5	12
99	Master equationÂfor the quantum Rabi model in the adiabatic regime. Physical Review A, 2022, 105, .	2.5	2
100	Model-Free Quantum Control with Reinforcement Learning. Physical Review X, 2022, 12, .	8.9	27
101	Integration of Topological Insulator Josephson Junctions in Superconducting Qubit Circuits. Nano Letters, 2022, 22, 2595-2602.	9.1	21
102	Photonic heat transport in three terminal superconducting circuit. Nature Communications, 2022, 13, 1552.	12.8	12
103	Optimized quantum singular value thresholding algorithm based on a hybrid quantum computer. Chinese Physics B, 2022, 31, 048704.	1.4	0
104	Topological edge modes without symmetry in quasiperiodically driven spin chains. Physical Review B, 2022, 105, .	3.2	13
105	Kerr reversal in Josephson meta-material and traveling wave parametric amplification. Nature Communications, 2022, 13, 1737.	12.8	29
106	Fast atom-photon entangling gates with a superconducting coplanar waveguide. Physical Review A, 2022, 105, .	2.5	0
107	The qutrit as a heat diode and circulator. New Journal of Physics, 2021, 23, 125006.	2.9	11
108	Lamb shift statistics in mesoscopic quantum ensembles. Quantum Information Processing, 2022, 21, 1.	2.2	1
109	Operating a passive on-chip superconducting circulator: Device control and quasiparticle effects. Physical Review Research, 2021, 3, .	3.6	4

ARTICLE IF CITATIONS # Yu-Shiba-Rusinov Qubit. PRX Quantum, 2021, 2, . 110 9.2 14 Systematic-Error-Tolerant Multiqubit Holonomic Entangling Gates. Physical Review Applied, 2021, 16, . 3.8 Superconducting Coupler with Exponentially Large On:Off Ratio. Physical Review Applied, 2021, 16, . 112 3.8 7 Quantum-Tailored Machine-Learning Characterization of a Superconducting Qubit. PRX Quantum, 2021, 2, . Improved Superconducting Qubit State Readout by Path Interference. Chinese Physics Letters, 2021, 38, 114 3.3 3 110303. Collective Spin-Light and Light-Mediated Spin-Spin Interactions in an Optical Cavity. PRX Quantum, 9.2 2022, 3, . Dissipative Quantum Feedback in Measurements Using a Parametrically Coupled Microcavity. PRX 116 9.2 6 Quantum, 2022, 3, . Localization and Mitigation of Loss in Niobium Superconducting Circuits. PRX Quantum, 2022, 3, . 9.2 Quantum entanglement in a four-partite hybrid system containing three macroscopic subsystems. 118 2.6 2 European Physical Journal Plus, 2022, 137, . Real non-Hermitian energy spectra without any symmetry. Chinese Physics B, 2022, 31, 070308. 1.4 Machine learning for continuous quantum error correction on superconducting qubits. New 120 2.9 9 Journal of Physics, 2022, 24, 063019. Autoregressive Neural Network for Simulating Open Quantum Systems via a Probabilistic Formulation. Physical Review Letters, 2022, 128, 090501. High coherence and low cross-talk in a tileable 3D integrated superconducting circuit architecture. 122 10.3 12 Science Advances, 2022, 8, eabl6698. On the Dynamics of the Tavis–Cummings Model. IEEE Transactions on Automatic Control, 2023, 68, 5.7 2048-2063. Topological two-particle dynamics in a periodically driven lattice model with on-site interactions. 124 2.51 Physical Review A, 2022, 105, . Quantum Reservoir Parameter Estimation via Fisher Information. Sakarya University Journal of Science, 0, , . Exponentially Enhanced Singleâ€Photon Crossâ€Kerr Nonlinearity in Quantum Optomechanics. Annalen 126 2.4 1 Der Physik, 2022, 534, 2100599. Autonomous quantum error correction in a four-photon Kerr parametric oscillator. Npj Quantum Information, 2022, 8, .

#	Article	IF	CITATIONS
128	Atomic interactions for qubit-error compensation. Physical Review A, 2022, 105, .	2.5	1
129	Tunable Single-Photon Scattering of a Giant ĥ-type Atom in a SQUID-Chain Waveguide. Frontiers in Physics, 2022, 10, .	2.1	4
130	Nonclassical photon statistics and photon squeezing in the dissipative mixed quantum Rabi model. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 115502.	1.5	3
131	Nonlinear dynamical Casimir effect at weak nonstationarity. European Physical Journal C, 2022, 82, .	3.9	5
132	Coherent Spin-Spin Coupling Mediated by Virtual Microwave Photons. Physical Review X, 2022, 12, .	8.9	38
133	Critical quantum metrology with fully-connected models: from Heisenberg to Kibble–Zurek scaling. Quantum Science and Technology, 2022, 7, 035010.	5.8	17
134	Single electrons on solid neon as a solid-state qubit platform. Nature, 2022, 605, 46-50.	27.8	22
135	Circuit quantum electrodynamics simulator of the two-dimensional Su-Schrieffer-Heeger model: higher-order topological phase transition induced by a continuously varying magnetic field. Optics Express, 2022, 30, 17054.	3.4	4
136	Quantum Brain Networks: A Perspective. Electronics (Switzerland), 2022, 11, 1528.	3.1	2
137	Boosting the Quantum State of a Cavity with Floquet Driving. Physical Review Letters, 2022, 128, 183602.	7.8	4
138	Low-loss superconducting aluminum microwave coplanar waveguide resonators on sapphires for the qubit readouts. Superconductor Science and Technology, 2022, 35, 065017.	3.5	3
139	Parity measurement in the strong dispersive regime of circuit quantum acoustodynamics. Nature Physics, 2022, 18, 794-799.	16.7	31
140	High-performance superconducting quantum processors via laser annealing of transmon qubits. Science Advances, 2022, 8, eabi6690.	10.3	31
141	Performance of Teleportation-Based Error-Correction Circuits for Bosonic Codes with Noisy Measurements. PRX Quantum, 2022, 3, .	9.2	3
142	Transmon platform for quantum computing challenged by chaotic fluctuations. Nature Communications, 2022, 13, 2495.	12.8	25
143	Dissipative entanglement generation between two qubits parametrically driven and coupled to a resonator. Physical Review A, 2022, 105, .	2.5	2
144	Signatures of Interactions in the Andreev Spectrum of Nanowire Josephson Junctions. Physical Review Letters, 2022, 128, .	7.8	19
145	Scalable estimation of pure multi-qubit states. Npj Quantum Information, 2022, 8, .	6.7	5

#	ARTICLE	IF	CITATIONS
146	Collection efficiency of optical photons generated from microwave excitations of a Bose-Einstein condensate. Physical Review A, 2022, 105, .	2.5	0
147	Fast Readout and Reset of a Superconducting Qubit Coupled to a Resonator with an Intrinsic Purcell Filter. Physical Review Applied, 2022, 17, .	3.8	21
148	Accelerated adiabatic passage in cavity magnomechanics. Physical Review A, 2022, 105, .	2.5	11
149	Universal Zeno competition in the dissipative Jaynes-Cummings model. Physical Review A, 2022, 105, .	2.5	0
150	Shortcut to adiabaticity in a cavity with a moving mirror. Physical Review A, 2022, 105, .	2.5	3
151	Linear quantum systems: A tutorial. Annual Reviews in Control, 2022, 54, 274-294.	7.9	13
152	Recent Developments in Quantum ircuit Refrigeration. Annalen Der Physik, 0, , 2100543.	2.4	5
153	Continuous measurement of a qudit using dispersively coupled radiation. Physical Review A, 2022, 105, .	2.5	4
154	Unified generation and fast emission of arbitrary single-photon multimode <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mi>W</mml:mi> states. Physical Review A, 2022, 105, .</mml:math 	2.5	8
155	Kinetically Constrained Quantum Dynamics in Superconducting Circuits. PRX Quantum, 2022, 3, .	9.2	10
156	Engineering, Control, and Longitudinal Readout of Floquet Qubits. Physical Review Applied, 2022, 17, .	3.8	10
157	Energetic Cost of Measurements Using Quantum, Coherent, and Thermal Light. Physical Review Letters, 2022, 128, .	7.8	4
158	Nonperturbative waveguide quantum electrodynamics. Physical Review Research, 2022, 4, .	3.6	13
159	Controlled beam splitter gate transparent to dominant ancilla errors. Quantum Science and Technology, 2022, 7, 035025.	5.8	2
160	Dispersive Readout of Molecular Spin Qudits. Physical Review Applied, 2022, 17, .	3.8	9
161	Comparison of Lumped Oscillator Model and Energy Participation Ratio Methods in Designing Two-Dimensional Superconducting Quantum Chips. Entropy, 2022, 24, 792.	2.2	2
162	Quantum-correlated photons generated by nonlocal electron transport. Physical Review B, 2022, 105, .	3.2	3
163	Non-Markovian Quantum Dynamics in Strongly Coupled Multimode Cavities Conditioned on Continuous Measurement. PRX Quantum, 2022, 3, .	9.2	8

#	Article	IF	CITATIONS
164	Acceleration and deceleration of quantum dynamics based on inter-trajectory travel with fast-forward scaling theory. Scientific Reports, 2022, 12, .	3.3	2
165	Quantum error correction with molecular spin qudits. Physical Chemistry Chemical Physics, 2022, 24, 20030-20039.	2.8	13
166	Complete Physical Characterization of Quantum Nondemolition Measurements via Tomography. Physical Review Letters, 2022, 129, .	7.8	3
167	Designing Kerr Interactions for Quantum Information Processing via Counterrotating Terms of Asymmetric Josephson-Junction Loops. Physical Review Applied, 2022, 17, .	3.8	6
168	Fluxonium: An Alternative Qubit Platform for High-Fidelity Operations. Physical Review Letters, 2022, 129, .	7.8	38
169	Entanglement resonance in the asymmetric quantum Rabi model. Physical Review A, 2022, 105, .	2.5	3
170	Minimum Quantum Run-Time Characterization and Calibration via Restless Measurements with Dynamic Repetition Rates. Physical Review Applied, 2022, 17, .	3.8	10
171	Rydberg Wire Gates for Universal Quantum Computation. Frontiers in Physics, 0, 10, .	2.1	1
172	Condensation in hybrid superconducting-cavity–microscopic-spins systems with finite-bandwidth drive. Physical Review B, 2022, 106, .	3.2	0
173	Hybrid superconducting photonic-phononic chip for quantum information processing. , 2022, 1, 100016.		12
174	Bound state in a giant atom-modulated resonators system. Npj Quantum Information, 2022, 8, .	6.7	18
175	From observations to complexity of quantum states via unsupervised learning. Physical Review B, 2022, 106, .	3.2	4
176	Theoretical Design of Optimal Molecular Qudits for Quantum Error Correction. Journal of Physical Chemistry Letters, 2022, 13, 6468-6474.	4.6	12
177	Design and fabrication of integrated superconducting isolator-circulator-isolator chip. Microelectronic Engineering, 2022, , 111844.	2.4	2
178	Single-junction quantum-circuit refrigerator. AIP Advances, 2022, 12, .	1.3	4
179	Cavity magnonics. Physics Reports, 2022, 979, 1-61.	25.6	140
180	TEM at millikelvin temperatures: Observing and utilizing superconducting qubits. Micron, 2022, 161, 103330.	2.2	1
181	Quantum optimal control in quantum technologies. Strategic report on current status, visions and goals for research in Europe. EPJ Quantum Technology, 2022, 9, .	6.3	123

#	Article	IF	CITATIONS
182	Singlet-Doublet Transitions of a Quantum Dot Josephson Junction Detected in a Transmon Circuit. PRX Quantum, 2022, 3, .	9.2	22
183	Ponderomotive Squeezing of Light by a Levitated Nanoparticle in Free Space. Physical Review Letters, 2022, 129, .	7.8	16
184	Demonstration of universal control between non-interacting qubits using the Quantum Zeno effect. Npj Quantum Information, 2022, 8, .	6.7	13
185	Simulating the Dicke lattice model and quantum phase transitions using an array of coupled resonators. Journal of Physics Condensed Matter, 0, , .	1.8	5
186	Protocol for generating an arbitrary quantum state of the magnetization in cavity magnonics. JPhys Materials, 2022, 5, 034006.	4.2	5
187	Single-photon scattering in a giant-molecule waveguide-QED system. Physical Review A, 2022, 106, .	2.5	21
188	Electromotive force in driven topological quantum circuits. Physical Review B, 2022, 106, .	3.2	3
189	Cooper pair splitter in a photonic cavity: Detection of Andreev scatterings. Physical Review B, 2022, 106, .	3.2	1
190	High kinetic inductance NbTiN superconducting transmission line resonators in the very thin film limit. Applied Physics Letters, 2022, 121, .	3.3	6
191	Numerical analysis of effective models for flux-tunable transmon systems. Physical Review A, 2022, 106, .	2.5	4
192	CircuitQ: An open-source toolbox for superconducting circuits. New Journal of Physics, 0, , .	2.9	4
193	Fully Tunable Longitudinal Spin-Photon Interactions in Si and Ge Quantum Dots. Physical Review Letters, 2022, 129, .	7.8	22
194	Cavity QED photons for quantum information processing. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 184004.	1.5	2
195	Blueprint for a High-Performance Fluxonium Quantum Processor. PRX Quantum, 2022, 3, .	9.2	25
196	Absence versus Presence of Dissipative Quantum Phase Transition in Josephson Junctions. Physical Review Letters, 2022, 129, .	7.8	9
197	Coherent Control of Collective Spontaneous Emission through Self-Interference. Physical Review Letters, 2022, 129, .	7.8	2
198	Superradiant emission spectra of a two-qubit system in circuit quantum electrodynamics. European Physical Journal B, 2022, 95, .	1.5	1
199	Measurement-based estimator scheme for continuous quantum error correction. Physical Review Research, 2022, 4, .	3.6	1

#	Article	IF	CITATIONS
200	Excitation of photon localization state with giant atom coupled in a waveguide-QED system. , 2022, , .		0
201	Gate-Tunable Kinetic Inductance in Proximitized Nanowires. Physical Review Applied, 2022, 18, .	3.8	9
202	Static Effective Hamiltonian of a Rapidly Driven Nonlinear System. Physical Review Letters, 2022, 129, .	7.8	10
203	A review on quantum information processing in cavities. European Physical Journal Plus, 2022, 137, .	2.6	11
204	Shortcuts to Adiabaticity for Fast Qubit Readout in Circuit Quantum Electrodynamics. Physical Review Applied, 2022, 18, .	3.8	2
205	Driven anti-Bragg subradiant correlations in waveguide quantum electrodynamics. Physical Review A, 2022, 106, .	2.5	5
206	Machine learning via relativity-inspired quantum dynamics. Physical Review A, 2022, 106, .	2.5	1
207	Fixing the rotating-wave approximation for strongly detuned quantum oscillators. Physical Review Research, 2022, 4, .	3.6	3
208	Quantum sensing proposal using a hybrid optomechanical system. Japanese Journal of Applied Physics, 2022, 61, 104501.	1.5	1
209	Fast Tunable Coupling Scheme of Kerr Parametric Oscillators Based on Shortcuts to Adiabaticity. Physical Review Applied, 2022, 18, .	3.8	8
210	Force-Detected Magnetic Resonance Imaging of Influenza Viruses in the Overcoupled Sensor Regime. Physical Review Applied, 2022, 18, .	3.8	1
211	Computer-aided quantization and numerical analysis of superconducting circuits. New Journal of Physics, 2022, 24, 103020.	2.9	2
212	Drastic effect of weak interaction near special points in semiclassical multiterminal superconducting nanostructures. Physical Review B, 2022, 106, .	3.2	0
213	Image-charge detection of the Rydberg transition of electrons on superfluid helium confined in a microchannel structure. New Journal of Physics, 2022, 24, 103026.	2.9	5
214	Effect of Impurity Scattering on Percolation of Bosonic Islands and Superconductivity in Fe Implanted NbN Thin Films. Nanomaterials, 2022, 12, 3105.	4.1	3
215	Experimental Demonstration of Swift Analytical Universal Control Over Nearby Transitions. Physical Review Applied, 2022, 18, .	3.8	1
216	Double-Transmon Coupler: Fast Two-Qubit Gate with No Residual Coupling for Highly Detuned Superconducting Qubits. Physical Review Applied, 2022, 18, .	3.8	9
217	Radiative properties of an artificial atom coupled to a Josephson-junction array. Physical Review A, 2022, 106, .	2.5	2

#	Article	IF	CITATIONS
218	Dynamics of Transmon Ionization. Physical Review Applied, 2022, 18, .	3.8	20
219	Beating the 3ÂdB Limit for Intracavity Squeezing and Its Application to Nondemolition Qubit Readout. Physical Review Letters, 2022, 129, .	7.8	13
220	Prospects of cooling a mechanical resonator with a transmon qubit in c-QED setup. Physical Review Research, 2022, 4, .	3.6	0
221	Universal Fidelity Reduction of Quantum Operations from Weak Dissipation. Physical Review Letters, 2022, 129, .	7.8	13
222	Room-Temperature Quantitative Quantum Sensing of Lithium Ions with a Radical-Embedded Metal–Organic Framework. Journal of the American Chemical Society, 2022, 144, 19008-19016.	13.7	22
223	Dynamics of a dispersively coupled transmon qubit in the presence of a noise source embedded in the control line. Physical Review A, 2022, 106, .	2.5	2
224	High cooperativity coupling to nuclear spins on a circuit quantum electrodynamics architecture. Communications Physics, 2022, 5, .	5.3	11
225	Symmetry operators of the asymmetric two-photon quantum Rabi model. Journal of Physics A: Mathematical and Theoretical, 0, , .	2.1	0
226	Low-symmetry nanophotonics. , 2022, , .		0
227	Entanglement and Charge-Sharpening Transitions in U(1) Symmetric Monitored Quantum Circuits. Physical Review X, 2022, 12, .	8.9	39
228	Advances in quantum error correction based on superconducting quantum systems. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.5	0
229	Quantum transduction is enhanced by single mode squeezing operators. Physical Review Research, 2022, 4, .	3.6	5
230	Fast universal control of an oscillator with weak dispersive coupling to a qubit. Nature Physics, 2022, 18, 1464-1469.	16.7	34
231	Quantum computation using action variables. Quantum Information Processing, 2022, 21, .	2.2	1
232	Hybrid entanglement operations on an optical cavity and a superconducting transmon qutrit via a microwave resonator embedded by an electro-optic material. Quantum Information Processing, 2022, 21, .	2.2	0
233	With great power comes great fidelity. Nature Physics, 0, , .	16.7	0
234	Hole Spin Qubits in Thin Curved Quantum Wells. Physical Review Applied, 2022, 18, .	3.8	8
235	Controllable single-photon routing between two waveguides by two giant two-level atoms. Frontiers in Physics, 0, 10, .	2.1	3

#	Article	IF	CITATIONS
236	Direct Calculation of <mml:math <br="" display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML">overflow="scroll"&gt;<mml:mi>Z</mml:mi>Z</mml:math> Interaction Rates in Multimode Circuit Quantum Electrodynamics. Physical Review Applied, 2022, 18, .	3.8	1
237	Stabilizing and Improving Qubit Coherence by Engineering the Noise Spectrum of Two-Level Systems. Physical Review Applied, 2022, 18, .	3.8	4
238	Quantum algorithms for Schrieffer-Wolff transformation. Physical Review Research, 2022, 4, .	3.6	2
239	Numerical gate synthesis for quantum heuristics on bosonic quantum processors. Frontiers in Physics, 0, 10, .	2.1	6
240	An ultra-high gain single-photon transistor in the microwave regime. Nature Communications, 2022, 13, .	12.8	3
241	Spatial-nonlocality-induced non-Markovian electromagnetically induced transparency in a single giant atom. Physical Review A, 2022, 106, .	2.5	11
242	A Review of Developments in Superconducting Quantum Processors. Journal of the Indian Institute of Science, 0, , .	1.9	0
243	Many-body Hilbert space scarring on a superconducting processor. Nature Physics, 2023, 19, 120-125.	16.7	26
244	Defining the Semiclassical Limit of the Quantum Rabi Hamiltonian. Physical Review Letters, 2022, 129, .	7.8	5
245	Generation of cat states by a weak parametric drive and a transitionless tracking algorithm. Physical Review A, 2022, 106, .	2.5	10
246	Evolution of the Number State Filtered Coherent State in a Kerr Medium. Journal of Russian Laser Research, 0, , .	0.6	0
247	Two-qubit gate using conditional driving for highly detuned Kerr nonlinear parametric oscillators. Physical Review Research, 2022, 4, .	3.6	5
248	Implications of gauge freedom for nonrelativistic quantum electrodynamics. Reviews of Modern Physics, 2022, 94, .	45.6	14
249	Beyond Hard-Core Bosons in Transmon Arrays. PRX Quantum, 2022, 3, .	9.2	3
250	Quantum correlations of a two-qubit system and the Aubry-André chain in bosonic environments. Physical Review A, 2022, 106, .	2.5	2
251	Simulating topological phases with atom arrays in an optical waveguide. Optics Express, 2022, 30, 42347.	3.4	3
252	Training an open quantum classifier. , 2022, , .		1
253	Strong photon–magnon coupling at microwave and millimeter-wave frequencies in planar hybrid circuits. Applied Physics Letters, 2022, 121, .	3.3	2

ARTICLE IF CITATIONS # Optomechanical Quantum Entanglement Mediated by Acoustic Phonon Fields. Physical Review Letters, 254 7.8 1 2022, 129, . Emission spectral non-Markovianity in qubit–cavity systems in the ultrastrong coupling regime. Journal of Chemical Physics, 2022, 157, . Generalized matching condition for unity efficiency quantum transduction. Physical Review Research, 256 3.6 2 2022, 4, . Optimal Control of Closed Quantum Systems via B-Splines with Carrier Waves. SIAM Journal of Scientific Computing, 2022, 44, A3592-A3616. Topological phases in interacting spin-1 systems. Physical Review B, 2022, 106, . 258 3.2 0 Quantum capacities of transducers. Nature Communications, 2022, 13, . 12.8 Generation of microwave photon perfect W states of three coupled superconducting resonators. 260 1.4 1 Chinese Physics B, 2023, 32, 040306. Directionality between driven-dissipative resonators. Europhysics Letters, 2022, 140, 35001. 2.0 Microwave and Optical Entanglement for Quantum Transduction with Electro-Optomechanics. 262 3.8 7 Physical Review Applied, 2022, 18, . Driven strongly correlated quantum circuits and Hall edge states: Unified photoassisted noise and 3.2 revisited minimal excitations. Physical Review B, 2022, 106, . Implication of giant photon bunching on quantum phase transition in the dissipative anisotropic 264 2 2.6 quantum Rabi model. Physica A: Statistical Mechanics and Its Applications, 2023, 609, 128364. Quantum Computing Technology and Roadmap., 2022,,. Microwave Susceptibility Observation of Interacting Many-Body Andreev States. Physical Review 267 7.8 9 Letters, 2022, 129, . Could the Quantum Internet Be Comprised of Molecular Spins with Tunable Optical Interfaces?. Journal of the American Chemical Society, 2022, 144, 21810-21825. 13.7 Non-Markovian transient spectroscopy in cavity QED. Physical Review Research, 2022, 4, . 269 3.6 4 Resource Theory of Heat and Work with Non-commuting Charges. Annales Henri Poincare, 2023, 24, 270 1725-1777. Cavity-Based Reservoir Engineering for Floquet-Engineered Superconducting Circuits. Physical Review 271 7.8 2 Letters, 2022, 129, . Universal quantum computation with symmetric qubit clusters coupled to an environment. Physical 272 Review A, 2022, 106, .

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#	Article	IF	CITATIONS
273	Quantum Thermalization and Thermal Entanglement in the Open Quantum Rabi Model. Annalen Der Physik, 2023, 535, .	2.4	2
274	Control of Localized Single- and Many-Body Dark States in Waveguide QED. Physical Review Letters, 2022, 129, .	7.8	7
275	Granular aluminium nanojunction fluxonium qubit. Nature Materials, 2023, 22, 194-199.	27.5	6
276	High-efficiency microwave-optical quantum transduction based on a cavity electro-optic superconducting system with long coherence time. Npj Quantum Information, 2022, 8, .	6.7	11
277	High-fidelity qutrit entangling gates for superconducting circuits. Nature Communications, 2022, 13, .	12.8	36
278	Quantum Optimal Control via Semi-Automatic Differentiation. Quantum - the Open Journal for Quantum Science, 0, 6, 871.	0.0	8
279	Fast Adiabatic Control of an Optomechanical Cavity. Entropy, 2023, 25, 18.	2.2	1
280	Cryogenic Multiplexing Control Chip for a Superconducting Quantum Processor. Physical Review Applied, 2022, 18, .	3.8	2
281	Multi-mode architectures for noise-resilient superconducting qubits. Superconductor Science and Technology, 2023, 36, 023001.	3.5	9
282	Long-distance coupling of spin qubits via topological magnons. Physical Review B, 2022, 106, .	3.2	5
283	Phase Calibration of the Parametric Gate in the Superconducting Circuits. Physica Status Solidi (B): Basic Research, 2023, 260, .	1.5	1
284	Chiral SQUID-metamaterial waveguide for circuit-QED. New Journal of Physics, 2022, 24, 123010.	2.9	3
285	Scalable and robust quantum computing on qubit arrays with fixed coupling. Npj Quantum Information, 2023, 9, .	6.7	6
286	Lyapunov control of finite-dimensional quantum systems based on bi-objective quantum-behaved particle swarm optimization algorithm. Journal of the Franklin Institute, 2023, 360, 13951-13971.	3.4	0
287	Optimal quantum control via genetic algorithms for quantum state engineering in driven-resonator mediated networks. Quantum Science and Technology, 2023, 8, 025004.	5.8	2
288	Characterization of tunable coupler without a dedicated readout resonator in superconducting circuits. Applied Physics Letters, 2023, 122, .	3.3	1
289	Floquet generation of a magnonic NOON state. Physical Review A, 2023, 107, .	2.5	6
290	Phase-dependent strategy to mimic quantum phase transitions. , 0, 1, .		0

#	Article	IF	CITATIONS
291	Role of parasitic interactions and microwave crosstalk in dispersive control of two superconducting artificial atoms. Physical Review A, 2023, 107, .	2.5	3
292	Energy dynamics, heat production and heat–work conversion with qubits: toward the development of quantum machines. Reports on Progress in Physics, 2023, 86, 036501.	20.1	17
293	PT symmetry in a superconducting hybrid quantum system withlongitudinal coupling. Optics Express, 0, , .	3.4	0
294	Characterizing Superradiant Phase of the Quantum Rabi Model. Chinese Physics Letters, 2023, 40, 020502.	3.3	3
295	Tunable single-photon routing between two single-mode waveguides by a giant <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si42.svg" display="inline" id="d1e1058"&gt;<mml:mi>î&gt;</mml:mi>-type three-level atom. Optik, 2023, 274, 170568.</mml:math 	2.9	1
296	Shot-noise-suppressing quantum nonlinearity in the vacuum-field-induced photon-photon interaction. Physical Review A, 2022, 106, .	2.5	0
297	Quasiparticles in Superconducting Qubits with Asymmetric Junctions. PRX Quantum, 2022, 3, .	9.2	5
298	Fast High-Fidelity Gates for Galvanically-Coupled Fluxonium Qubits Using Strong Flux Modulation. PRX Quantum, 2022, 3, .	9.2	9
299	Electronic Spin Qubit Candidates Arrayed within Layered Two-Dimensional Polymers. Journal of the American Chemical Society, 2023, 145, 689-696.	13.7	11
300	Synchronization of a superconducting qubit to an optical field mediated by a mechanical resonator. Physical Review A, 2023, 107, .	2.5	0
301	Experimental Limit on Nonlinear State-Dependent Terms in Quantum Theory. Physical Review Letters, 2023, 130, .	7.8	3
302	Non-Gaussian superradiant transition via three-body ultrastrong coupling. Physical Review A, 2023, 107, .	2.5	3
303	Residual Quantum Effects beyond Meanâ€Field Treatment in Quantum Optics Systems. Laser and Photonics Reviews, 0, , 2200599.	8.7	0
304	Phase Control of Bipolar Thermoelectricity in Josephson Tunnel Junctions. Physical Review Applied, 2023, 19, .	3.8	10
305	Tunable hole spin-photon interaction based on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mi mathvariant="monospace"&gt;g -matrix modulation. Physical Review B, 2023, 107, .</mml:mi </mml:math 	3.2	11
306	Sequential generalized measurements: Asymptotics, typicality, and emergent projective measurements. Physical Review A, 2023, 107, .	2.5	1
307	Quantum collisional classifier driven by information reservoirs. Physical Review A, 2023, 107, .	2.5	3
308	Experimental Realization of Two Qutrits Gate with Tunable Coupling in Superconducting Circuits. Physical Review Letters, 2023, 130, .	7.8	10

	CITATION	REPORT	
# 309	ARTICLE Noise Properties of a Josephson Parametric Oscillator. Physical Review Applied, 2023, 19, .	IF 3.8	CITATIONS 2
310	A superconducting quantum simulator based on a photonic-bandgap metamaterial. Science, 2023, 379, 278-283.	12.6	23
311	Quantum simulation of weak-field light-matter interactions. Physical Review Research, 2023, 5, .	3.6	2
312	Hybrid Quantum Systems for Higher Temperature Quantum Information Processing. IEEE Transactions on Applied Superconductivity, 2023, 33, 1-4.	1.7	1
313	Aging transition in coupled quantum oscillators. Physical Review E, 2023, 107, .	2.1	2
314	Superconducting transmon qubit-resonator quantum battery. Physical Review A, 2023, 107, .	2.5	9
315	Non-Hermitian topological quantum states in a reservoir-engineered transmon chain. Physical Review B, 2023, 107, .	3.2	2
316	Universal logic with encoded spin qubits in silicon. Nature, 2023, 615, 817-822.	27.8	23
317	Enhanced sensing of optomechanically induced nonlinearity by linewidth suppression and optical bistability in cavity-waveguide systems. Optics Express, 2023, 31, 9236.	3.4	2
318	Quantum entanglement generation on magnons assisted with microwave cavities coupled to a superconducting qubit. Frontiers of Physics, 2023, 18, .	5.0	3
319	Dissipative stabilization of dark quantum dimers via squeezed vacuum. Physical Review Research, 2023, 5, .	3.6	3
320	Enhanced spin-mechanical interaction with levitated micromagnets. Physical Review A, 2023, 107, .	2.5	3
321	Generation of spin squeezing via a fully quantum degenerate parametric amplifier. Physical Review A, 2023, 107, .	2.5	1
322	Evidence of dual Shapiro steps in a Josephson junction array. Nature Physics, 2023, 19, 851-856.	16.7	9
323	Toward Highly Efficient Multimode Superconducting Quantum Memory. Physical Review Applied, 2023, 19, .	3.8	8
324	Single-Spin Readout and Quantum Sensing Using Optomechanically Induced Transparency. Physical Review Letters, 2023, 130, .	7.8	4
325	Parallel tomography of quantum non-demolition measurements in multi-qubit devices. Npj Quantum Information, 2023, 9, .	6.7	2
326	Strong coupling between a photon and a hole spin in silicon. Nature Nanotechnology, 2023, 18, 741-746.	31.5	23

#	Article	IF	CITATIONS
327	Squeezing Limit of the Josephson Ring Modulator as a Nondegenerate Parametric Amplifier. Physical Review Applied, 2023, 19, .	3.8	0
328	Superconducting Resonators with Voltage-Controlled Frequency and Nonlinearity. Physical Review Applied, 2023, 19, .	3.8	11
329	Tuning microwave losses in superconducting resonators. Superconductor Science and Technology, 2023, 36, 063002.	3.5	7
330	Noisy intermediate-scale quantum computers. Frontiers of Physics, 2023, 18, .	5.0	19
331	Nonlinearity and Parametric Amplification of Superconducting Nanowire Resonators in Magnetic Field. Physical Review Applied, 2023, 19, .	3.8	4
332	Quantum Simulation of Dissipative Collective Effects on Noisy Quantum Computers. PRX Quantum, 2023, 4, .	9.2	11
333	Open-system spin transport and operator weight dissipation in spin chains. Physical Review B, 2023, 107,	3.2	0
334	Waveguide quantum electrodynamics: Collective radiance and photon-photon correlations. Reviews of Modern Physics, 2023, 95, .	45.6	63
335	Shortcuts to adiabaticity in a fast controlled-phase gate in superconducting quantum circuits. , 0, 2, .		1
336	Transmon qubit readout fidelity at the threshold for quantum error correction without a quantum-limited amplifier. Npj Quantum Information, 2023, 9, .	6.7	17
337	Joint quantum estimation of loss and nonlinearity in driven-dissipative Kerr resonators. Physical Review Research, 2023, 5, .	3.6	7
338	Dynamics and transport in the boundary-driven dissipative Klein-Gordon chain. Physical Review B, 2023, 107, .	3.2	2
339	Fock-state master equations for open quantum optical systems. Progress in Optics, 2023, , 67-100.	0.6	0
340	Investigating the Individual Performances of Coupled Superconducting Transmon Qubits. Condensed Matter, 2023, 8, 29.	1.8	2
341	Josephson junctions. , 2024, , 616-631.		0
342	Overcoming photon blockade in a circuit-QED single-atom maser with engineered metastability and strong coupling. Physical Review A, 2023, 107, .	2.5	2
343	Beating the break-even point with a discrete-variable-encoded logical qubit. Nature, 2023, 616, 56-60.	27.8	25
344	Co-Designed Architectures for Modular Superconducting Quantum Computers. , 2023, , .		3

#	Article	IF	CITATIONS
345	Fast high-fidelity parity measurement of spin qubits in quantum dots using modulated pulses. Physical Review A, 2023, 107, .	2.5	1
346	Quantum error correction with dissipatively stabilized squeezed-cat qubits. Physical Review A, 2023, 107, .	2.5	5
347	Quantized Fields for Optimal Control in the Strong Coupling Regime. Physical Review Letters, 2023, 130, .	7.8	1
348	Quantum fluids of light. , 2024, , 959-966.		0
349	Anomalous Josephson current through a driven double quantum dot. Physical Review B, 2023, 107, .	3.2	7
350	Quantum state transport in a square-lattice superconducting qubit circuit under gauge potential. Wuli Xuebao/Acta Physica Sinica, 2023, 72, 100304.	0.5	0
351	Accurate Methods for the Analysis of Strong-Drive Effects in Parametric Gates. Physical Review Applied, 2023, 19, .	3.8	5
352	Simple master equations for describing driven systems subject to classical non-Markovian noise. Quantum - the Open Journal for Quantum Science, 0, 7, 972.	0.0	6
353	Protecting the Quantum Interference of Cat States by Phase-Space Compression. Physical Review X, 2023, 13, .	8.9	5
354	Generating entangled states from coherent states in circuit QED. Physical Review A, 2023, 107, .	2.5	4
355	Multi-Mode Bus Coupling Architecture of Superconducting Quantum Processor. Chinese Physics Letters, 2023, 40, 010301.	3.3	0
356	Multiple-photon bundle emission in the n-photon Jaynes-Cummings model. Optics Express, 2023, 31, 15697.	3.4	4
357	Catalysis in charging quantum batteries. Physical Review A, 2023, 107, .	2.5	5
358	Robust scheme for high-fidelity generation of mesoscopic entangled cat state. Physica Scripta, 0, , .	2.5	0
359	SchrĶdinger cat states of a 16-microgram mechanical oscillator. Science, 2023, 380, 274-278.	12.6	25
360	Functional-renormalization-group approach to circuit quantum electrodynamics. Physical Review A, 2023, 107, .	2.5	3
361	Reminiscence of Classical Chaos in Driven Transmons. PRX Quantum, 2023, 4, .	9.2	9
362	Multi-party Entanglement Generation Through Superconducting Circuits. International Journal of Theoretical Physics, 2023, 62, .	1.2	0

#	Article	IF	CITATIONS
363	Stabilization and Dissipative Information Transfer of a Superconducting Kerr-Cat Qubit. Balkan Journal of Electrical and Computer Engineering, 2023, 11, 107-114.	0.6	0
364	Quantum battery based on dipole-dipole interaction and external driving field. Physical Review E, 2023, 107, .	2.1	0
365	Proposal for quantum memory miniaturization in superconducting circuit QED. Physical Review A, 2023, 107, .	2.5	1
366	Entanglement Purification for Logic-Qubit of Photon System Based on Parity Check Measurement Gate. Entropy, 2023, 25, 705.	2.2	0
367	Quantum heat diode versus light emission in circuit quantum electrodynamical system. Physical Review E, 2023, 107, .	2.1	2
368	Many-body cavity quantum electrodynamics with driven inhomogeneous emitters. Nature, 2023, 617, 271-276.	27.8	9
369	Simulating the extended Su-Schrieffer-Heeger model and transferring an entangled state based on a hybrid cavity-magnon array. Physical Review A, 2023, 107, .	2.5	3
370	Consistent Quantization of Nearly Singular Superconducting Circuits. Physical Review X, 2023, 13, .	8.9	1
371	Perspective on superconducting qubit quantum computing. European Physical Journal A, 2023, 59, .	2.5	2
372	Berry phase and topology in ultrastrongly coupled quantum light-matter systems. Physical Review B, 2023, 107, .	3.2	3
373	Quantum Simulation for High-Energy Physics. PRX Quantum, 2023, 4, .	9.2	34
374	Efficient Generation of W Entangled States Among Superconducting Qubits via Lie-Algebra–Based Transforms. International Journal of Theoretical Physics, 2023, 62, .	1.2	0
375	Quantum Coherent Feedback Control With Photons. IEEE Transactions on Automatic Control, 2024, 69, 856-871.	5.7	1
376	Loophole-free Bell inequality violation with superconducting circuits. Nature, 2023, 617, 265-270.	27.8	27
377	Spectral features of polaronic excitations in a superconducting analog simulator. Physical Review B, 2023, 107, .	3.2	1
378	Revealing the finite-frequency response of a bosonic quantum impurity. SciPost Physics, 2023, 14, .	4.9	0
379	Cryogenic sensor enabling broad-band and traceable power measurements. Review of Scientific Instruments, 2023, 94, .	1.3	0
380	Quantum information processing with superconducting circuits: A perspective. , 2024, , 246-267.		0

		CITATION REI	PORT	
#	Article		IF	CITATIONS
381	Concurrent quantum eigensolver for multiple low-energy eigenstates. Physical Review A, 2023, 10	)7,.	2.5	1
382	Quantum Rabi interferometry of motion and radiation. Quantum - the Open Journal for Quantum Science, 0, 7, 1024.		0.0	0
383	Ancilla-Assisted Generation of Photons from Vacuum via Time-Modulation of Extracavity Qubit. Entropy, 2023, 25, 901.		2.2	0
384	Dynamics of a multipartite hybrid quantum system with beamsplitter, dipole-dipole and Ising interactions. Journal of the Optical Society of America B: Optical Physics, 0, , .		2.1	Ο
385	Discriminating the Phase of a Coherent Tone with a Flux-Switchable Superconducting Circuit. Physical Review Applied, 2023, 19, .		3.8	2
386	Two-Qutrit Quantum Algorithms on a Programmable Superconducting Processor. Physical Review Applied, 2023, 19, .	,	3.8	10
387	Interpretable Quantum Advantage in Neural Sequence Learning. PRX Quantum, 2023, 4, .		9.2	2
388	Probing Two Driven Double Quantum Dots Strongly Coupled to a Cavity. Physical Review Letters, 130, .	2023,	7.8	2
389	Chiral and nonreciprocal single-photon scattering in a chiral-giant-molecule waveguide-QED syste Physical Review A, 2023, 107, .	m.	2.5	10
390	Semiconductor spin qubits. Reviews of Modern Physics, 2023, 95, .		45.6	73
391	Electrically driven photon statistics engineering in quantum-dot circuit quantum electrodynamics Physical Review B, 2023, 107, .		3.2	4
392	Integral formulation of the macroscopic quantum electrodynamics in dispersive dielectric objects Physical Review A, 2023, 107, .		2.5	0
393	Dynamical parity selection in superconducting weak links. Physical Review B, 2023, 107, .		3.2	3
394	ZrNb(CO) RF Superconducting Thin Film with High Critical Temperature in the Theoretical Limit. Advanced Electronic Materials, 2023, 9, .		5.1	3
395	Coherent optical control of a superconducting microwave cavity via electro-optical dynamical back-action. Nature Communications, 2023, 14, .		12.8	2
396	Fano-qubits for quantum devices with enhanced isolation and bandwidth. Applied Physics Letters 2023, 122, .	, 	3.3	1
397	Electrochemical polishing of chemical vapor deposited niobium thin films. Thin Solid Films, 2023, 139948.	780,	1.8	1
398	Zak transform as a framework for quantum computation with the Gottesman-Kitaev-Preskill code Physical Review A, 2023, 107, .		2.5	1

	Сіт	ation Report	
#	Article	IF	Citations
399	Error-Detectable Bosonic Entangling Gates with a Noisy Ancilla. PRX Quantum, 2023, 4, .	9.2	3
400	Certifying Multimode Light-Matter Interaction in Lossy Resonators. Physical Review Letters, 2023, 130	,. 7.8	2
401	Vibration squeezing and its detection in a single molecular junction. Physical Review B, 2023, 107, .	3.2	1
402	Millisecond Coherence in a Superconducting Qubit. Physical Review Letters, 2023, 130, .	7.8	20
403	Dynamical Gauge Fields with Bosonic Codes. Physical Review Letters, 2023, 130, .	7.8	1
404	Probing quantum devices with radio-frequency reflectometry. Applied Physics Reviews, 2023, 10, .	11.3	17
405	Theory and computation of Markovian quantum antenna systems. Results in Physics, 2023, 49, 10645	3. 4.1	0
406	Realization of Strong Coupling between Deterministic Single-Atom Arrays and a High-Finesse Miniature Optical Cavity. Physical Review Letters, 2023, 130, .	7.8	13
407	A flux-tunable YBa2Cu3O7 quantum interference microwave circuit. Applied Physics Letters, 2023, 122	2,. 3.3	3
408	Normal-mode splitting in an optomechanical system enhanced by an optical parametric amplifier and coherent feedback. Journal of Optics (United Kingdom), 2023, 25, 075201.	2.2	0
409	Gain of a High-Impedance Cavity Coupled to Strongly Driven Semiconductor Quantum Dots. Physical Review Applied, 2023, 19, .	3.8	1
410	Flux-based three-dimensional electrodynamic modeling approach to superconducting circuits and materials. Physical Review A, 2023, 107, .	2.5	1
411	High Cooperativity Using a Confocal-Cavity–QED Microscope. PRX Quantum, 2023, 4, .	9.2	4
412	Direct manipulation of a superconducting spin qubit strongly coupled to a transmon qubit. Nature Physics, 2023, 19, 1110-1115.	16.7	17
413	Cavity Quantum Electrodynamics with Hyperbolic van der Waals Materials. Physical Review Letters, 2023, 130, .	7.8	4
414	Magnon Bundle in a Strongly Dissipative Magnet. Physical Review Applied, 2023, 19, .	3.8	5
415	Softening of Majorana edge states by long-range couplings. Physical Review B, 2023, 107, .	3.2	3
416	Phononic bath engineering of a superconducting qubit. Nature Communications, 2023, 14, .	12.8	5

#	Article	IF	CITATIONS
417	Deep quantum neural networks on a superconducting processor. Nature Communications, 2023, 14, .	12.8	3
418	Shortcuts to adiabaticity in superconducting circuits for fast multi-partite state generation. Communications Physics, 2023, 6, .	5.3	1
419	Strong single-photon to two-photon bundles emission in spin-1 Jaynes–Cummings model. APL Photonics, 2023, 8, .	5.7	0
420	Coupled quantum pendula as a possible model for Josephson-junction-based axion detection. Chaos, Solitons and Fractals, 2023, 173, 113745.	5.1	2
421	Long-range entanglement between spin qubits in quantum dots by virtual photon process. Modern Physics Letters A, 2023, 38, .	1.2	0
422	Testing spontaneous wavefunction collapse with quantum electromechanics. Quantum Science and Technology, 2023, 8, 045003.	5.8	2
423	Unidirectional microwave transduction with chirality selected short-wavelength magnon excitations. Applied Physics Letters, 2023, 123, .	3.3	2
424	Acoustic Radiation From a Superconducting Qubit: From Spontaneous Emission to Rabi Oscillations. Physical Review Applied, 2023, 20, .	3.8	2
425	Gradient-Ascent Pulse Engineering with Feedback. PRX Quantum, 2023, 4, .	9.2	5
426	Simulating neutrino oscillations on a superconducting qutrit. Physical Review D, 2023, 108, .	4.7	4
427	Long-Time Relaxation of a Finite Spin Bath Linearly Coupled to a Qubit. Open Systems and Information Dynamics, 2023, 30, .	1.2	0
428	Quantum acoustic Fano interference of surface phonons. Physical Review A, 2023, 108, .	2.5	2
429	Tunable \$LC\$ resonator for multiplexed multi-qubit readout. , 2023, , .		0
430	Molecule-Plasmon-Photon Hybridization and Applications. Journal Physics D: Applied Physics, 0, , .	2.8	0
431	Performance Analysis of a Repetition Cat Code Architecture: Computing 256-bit Elliptic Curve Logarithm in 9ÂHours with 126 133 Cat Qubits. Physical Review Letters, 2023, 131, .	7.8	1
432	Embedded quantum correlations in thermalized quantum Rabi systems. Physical Review A, 2023, 108, .	2.5	Ο
433	Proposal for Observing XUV-Induced Rabi Oscillation Using Superfluorescent Emission. Physical Review Letters, 2023, 131, .	7.8	2
434	Dissipative preparation and stabilization of many-body quantum states in a superconducting qutrit array. Physical Review A, 2023, 108, .	2.5	4

#		IF	CITATIONS
435	1/f noise in quantum nanoscience. , 2024. , 1003-1017.	n	1
436	Experimentally Verified, Fast Analytic, and Numerical Design of Superconducting Resonators in	4.9	2
	Flip-Chip Architectures. IEEE Transactions on Quantum Engineering, 2023, 4, 1-12.		
437	Stationary current between hybrid vibrational polaritonic systems. Physical Review B, 2023, 108, .	3.2	0
438	Fragility of gate-error metrics in simulation models of flux-tunable transmon quantum computers. Physical Review A, 2023, 108, .	2.5	Ο
439	Zeno and Anti-Zeno Effects in Nonadiabatic Molecular Dynamics. Journal of Physical Chemistry Letters, 2023, 14, 7274-7282.	4.6	5
440	Unified Simulation Methods for Quantum Acoustic Devices. Physical Review Applied, 2023, 20, .	3.8	1
441	Coherent memory for microwave photons based on long-lived mechanical excitations. Npj Quantum Information, 2023, 9, .	6.7	2
442	Calibration of Drive Nonlinearity for Arbitrary-Angle Single-Qubit Gates Using Error Amplification. Physical Review Applied, 2023, 20, .	3.8	0
443	Resonant parametric photon generation in waveguide-coupled quantum emitter arrays. Physical Review A, 2023, 108, .	2.5	0
444	Metrics and properties of optimal gauges in multimode cavity QED. Physical Review A, 2023, 108, .	2.5	3
445	Cooling microwave fields into general multimode Gaussian states. New Journal of Physics, 2023, 25, 083052.	2.9	0
446	Dynamics-based quantumness certification of continuous variables using time-independent Hamiltonians with one degree of freedom. Physical Review A, 2023, 108, .	2.5	0
447	Reconfigurable valley topological QED platform for qubit operation. Physical Review A, 2023, 108, .	2.5	0
448	Platform for braiding Majorana modes with magnetic skyrmions. Physical Review Research, 2023, 5, .	3.6	2
449	Quantum Computation of Dynamical Quantum Phase Transitions and Entanglement Tomography in a Lattice Gauge Theory. PRX Quantum, 2023, 4, .	9.2	6
450	Superconducting Quantum Circuits Based on 2D Materials. Spin, 0, , .	1.3	0
451	Frequency-tunable microwave quantum light source based on superconducting quantum circuits. , 2023, 2, 100063.		0
452	Soliton versus single-photon quantum dynamics in arrays of superconducting qubits. Physical Review Research, 2023, 5, .	3.6	0

щ		15	CITATIONS
#	AKTICLE		CHATIONS
453	Photon-assisted electron transport across a quantum phase transition. Physical Review B, 2023, 108, .	3.2	1
454	Universal Qudit Gate Synthesis for Transmons. PRX Quantum, 2023, 4, .	9.2	10
455	Generation of two-giant-atom entanglement in waveguide-QED systems. Physical Review A, 2023, 108, .	2.5	6
456	Dispersive readout of a silicon quantum device using an atomic force microscope-based rf gate sensor. Applied Physics Letters, 2023, 123, .	3.3	0
457	Smooth, homogeneous, high-purity Nb <sub>3</sub> Sn superconducting RF resonant cavity by seed-free electrochemical synthesis. Superconductor Science and Technology, 2023, 36, 115003.	3.5	3
458	Spectroscopy of Spin-Split Andreev Levels in a Quantum Dot with Superconducting Leads. Physical Review Letters, 2023, 131, .	7.8	4
459	Control optimization for parametric Hamiltonians by pulse reconstruction. European Physical Journal A, 2023, 59, .	2.5	1
460	Adiabatic Shortcuts Completion in Quantum Field Theory: Annihilation of Created Particles. Entropy, 2023, 25, 1249.	2.2	0
461	Quantum computation at the edge of a disordered Kitaev honeycomb lattice. Scientific Reports, 2023, 13, .	3.3	0
462	Multiplexed superconducting qubit control at millikelvin temperatures with a low-power cryo-CMOS multiplexer. Nature Electronics, 2023, 6, 900-909.	26.0	2
463	High-fidelity parametric beamsplitting with a parity-protected converter. Nature Communications, 2023, 14, .	12.8	4
464	Quantum Coherence from a Few Incoherent Bosons. Advanced Quantum Technologies, 2023, 6, .	3.9	0
465	Twoâ€Mode Correlated Multiphoton Bundle Emission. Advanced Quantum Technologies, 2023, 6, .	3.9	0
466	Time-crystal phase emerging from a qubit network under unitary random operations. Physical Review A, 2023, 108, .	2.5	0
467	Approximate Autonomous Quantum Error Correction with Reinforcement Learning. Physical Review Letters, 2023, 131, .	7.8	2
468	Qubit energy tuner based on single flux quantum circuits. Frontiers in Physics, 0, 11, .	2.1	0
469	Mapping Molecular Hamiltonians into Hamiltonians of Modular cQED Processors. Journal of Chemical Theory and Computation, 2023, 19, 6564-6576.	5.3	0
470	Nonequilibrium thermodynamics and power generation in open quantum optomechanical systems. Physical Review A, 2023, 108,	2.5	1

#	Article	IF	CITATIONS
471	Exceptional-point-assisted entanglement, squeezing, and reset in a chain of three superconducting resonators. Physical Review Research, 2023, 5, .	3.6	0
472	Controlling qubit-oscillator systems using linear parameter sweeps. New Journal of Physics, 2023, 25, 093011.	2.9	1
473	Qubit-Photon Bound States: Crossover from Waveguide to Cavity Regime. Physical Review Applied, 2023, 20, .	3.8	0
474	High-cooperativity cavity magnon-polariton using a high- <i>Q</i> dielectric resonator. Journal of Applied Physics, 2023, 134, .	2.5	0
475	Waveguide QED with Quadratic Light-Matter Interactions. PRX Quantum, 2023, 4, .	9.2	1
476	Deterministic single-photon source in the ultrastrong-coupling regime. Physical Review A, 2023, 108, .	2.5	Ο
477	Error-insensitive preparation of entangled states between a Josephson qubit and microwave photons via invariant-based shortcuts. International Journal of Quantum Information, 2024, 22, .	1.1	0
478	Universal Quantum Optimization with Cold Atoms in an Optical Cavity. Physical Review Letters, 2023, 131, .	7.8	0
479	Tunable coupler for mediating interactions between a two-level system and a waveguide from a decoupled state to the ultrastrong coupling regime. Physical Review Research, 2023, 5, .	3.6	2
480	Fast generation of high-fidelity mechanical non-Gaussian states via additional amplifier and photon subtraction. Physical Review Research, 2023, 5, .	3.6	0
481	A Multi-Qubit Quantum Gate Using the Zeno Effect. Quantum - the Open Journal for Quantum Science, 0, 7, 1100.	0.0	1
482	Intermodulation Distortion in a Josephson Traveling-Wave Parametric Amplifier. Physical Review Applied, 2023, 20, .	3.8	1
483	The Coming Decades of Quantum Simulation. Lecture Notes in Physics, 2023, , 85-125.	0.7	2
484	Superconducting Cavity Qubit with Tens of Milliseconds Single-Photon Coherence Time. PRX Quantum, 2023, 4, .	9.2	7
485	Collateral Coupling between Superconducting Resonators: Fast High-Fidelity Generation of Qudit-Qudit Entanglement. Physical Review Applied, 2023, 20, .	3.8	0
486	Three-level <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal"&gt;ĥ</mml:mi </mml:math> -type microwave memory via parametric-modulation-induced transparency in a superconducting quantum circuit. Physical Review Research 2023 5	3.6	0
487	Superconducting-Semiconducting Voltage-Tunable Qubits in the Third Dimension. Physical Review Applied, 2023, 20, .	3.8	1
488	Broadband bandpass Purcell filter for circuit quantum electrodynamics. Applied Physics Letters, 2023, 123, .	3.3	1

#	Article	IF	CITATIONS
489	Enhancing strength and range of atom-atom interaction in a coupled-cavity array via parametric drives. Physical Review A, 2023, 108, .	2.5	0
490	Microwave-driven <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mi>i</mml:mi> swap-like gate for fixed-frequency superconducting transmon qutrits. Physical Review A, 2023, 108, .</mml:math 	2.5	3
491	Integrating magnons for quantum information. Applied Physics Letters, 2023, 123, .	3.3	1
492	Exchange interaction between two quantum dots coupled through a superconducting island. Physical Review B, 2023, 108, .	3.2	0
493	Characterizing Crosstalk of Superconducting Transmon Processors. Physical Review Applied, 2023, 20,	3.8	3
494	Probing dressed states and quantum nonlinearities in a strongly coupled three-qubit waveguide system under optical pumping. Physical Review A, 2023, 108, .	2.5	1
495	Efficient scheme for implementing a hybrid Toffoli gate with two NV ensembles simultaneously controlling a single superconducting qubit. Applied Physics Letters, 2023, 123, .	3.3	2
496	Efficient numerical approach for the simulations of high-power dispersive readout with time-dependent unitary transformation. Physical Review A, 2023, 108, .	2.5	0
497	Superconductor-semiconductor hybrid capacitance with a nonlinear charge–voltage profile. Journal Physics D: Applied Physics, 2024, 57, 025301.	2.8	0
498	Surface oxides, carbides, and impurities on RF superconducting Nb and Nb <sub>3</sub> Sn: a comprehensive analysis. Superconductor Science and Technology, 2023, 36, 115030.	3.5	6
499	Quantum heat valve and entanglement in superconducting <i>LC</i> resonators. Applied Physics Letters, 2023, 123, .	3.3	1
500	Spectral and Combinatorial Aspects of Cayley-Crystals. Annales Henri Poincare, 0, , .	1.7	3
501	Detection of persistent current correlation in cavity-QED. Journal of Magnetism and Magnetic Materials, 2023, 587, 171356.	2.3	0
502	Cloaking a qubit in a cavity. Nature Communications, 2023, 14, .	12.8	2
503	Continuous-Variable Quantum Computation in Circuit QED. Chinese Physics Letters, 2023, 40, 110303.	3.3	1
504	Characterization of superconducting through-silicon vias as capacitive elements in quantum circuits. Applied Physics Letters, 2023, 123, .	3.3	1
505	Compact superconducting transmon qubit circuits made of ultrathin NbN. Applied Physics Letters, 2023, 123, .	3.3	1
506	Multi-stability in cavity QED with spin–orbit coupled Bose–Einstein condensate. Nonlinear Dynamics, 2023, 111, 21177-21189.	5.2	0

#	Article	IF	CITATIONS
507	Compact vacuum-gap transmon qubits: Selective and sensitive probes for superconductor surface losses. Physical Review Applied, 2023, 20, .	3.8	1
508	Simulating gauge theories with variational quantum eigensolvers in superconducting microwave cavities. Quantum - the Open Journal for Quantum Science, 0, 7, 1148.	0.0	1
509	Multimode character of quantum states released from a superconducting cavity. Physical Review Research, 2023, 5, .	3.6	1
510	Designing High-Fidelity Zeno Gates for Dissipative Cat Qubits. PRX Quantum, 2023, 4, .	9.2	0
511	Virtual quantum error detection. Physical Review A, 2023, 108, .	2.5	1
512	Electron charge qubit with 0.1â $\in$ ‰millisecond coherence time. Nature Physics, 0, , .	16.7	2
513	Realizing a deep reinforcement learning agent for real-time quantum feedback. Nature Communications, 2023, 14, .	12.8	5
514	Observation and control of hybrid spin-wave–Meissner-current transport modes. Science, 2023, 382, 430-434.	12.6	2
515	Cavity-induced switching between Bell-state textures in a quantum dot. Physical Review B, 2023, 108, .	3.2	0
516	Transmon-photon entanglement by engineering shortcuts with optimized drivings. Quantum Information Processing, 2023, 22, .	2.2	0
517	Apparent nonlinear damping triggered by quantum fluctuations. Nature Communications, 2023, 14, .	12.8	1
518	Advancements in Quantum Optics: Harnessing the Power of Photons for Next-Generation Technologies. Journal of Optics (India), 0, , .	1.7	1
519	Localization and spectrum of quasiparticles in a disordered fermionic Dicke model. Physical Review B, 2023, 108, .	3.2	1
520	Tuning the supercurrent distribution in parallel ballistic graphene Josephson junctions. Physical Review Applied, 2023, 20, .	3.8	0
521	Long-lifetime coherent storage for microwave photons in the magnomechanical resonator. , 2023, 2, .		0
522	Non-reciprocal transmission in a non-Hermitian waveguide quantum electrodynamics system with non-reciprocal hopping. Quantum Information Processing, 2023, 22, .	2.2	0
523	Optimal coupling of <mml:math <br="" display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML">overflow="scroll"&gt; <mml:msub> <mml:mrow> <mml:mi>Ho </mml:mi> <mml:mi mathvariant="normal"&gt;W  </mml:mi </mml:mrow> <mml:mn>10 </mml:mn> </mml:msub> </mml:math> molecular magnets to superconducting circuits near spin clock transitions. Physical Review Applied,	3.8	1
524	2023, 20, . Design and fabrication of cryogenic multiplexing control chip. Frontiers in Physics, 0, 11, .	2.1	0

#	Article	IF	CITATIONS
525	Full Counting Statistics of Charge in Chaotic Many-Body Quantum Systems. Physical Review Letters, 2023, 131, .	7.8	2
526	Quantum computation of phase transition in interacting scalar quantum field theory. Quantum Information Processing, 2023, 22, .	2.2	0
527	Measurement-induced state transitions in a superconducting qubit: Within the rotating-wave approximation. Physical Review Applied, 2023, 20, .	3.8	6
528	Completely Positive Map for Noisy Driven Quantum Systems Derived by Keldysh Expansion. Quantum - the Open Journal for Quantum Science, 0, 7, 1158.	0.0	0
529	Symmetries of the squeeze-driven Kerr oscillator. Journal of Physics A: Mathematical and Theoretical, 2023, 56, 495305.	2.1	2
530	Qubit readout enabled by qubit cloaking. Physical Review Applied, 2023, 20, .	3.8	1
531	Phase-Driving Hole Spin Qubits. Physical Review Letters, 2023, 131, .	7.8	1
532	Nonequilibrium dynamics of the Jaynes-Cummings dimer. Physical Review E, 2023, 108, .	2.1	0
533	Resolving Nonperturbative Renormalization of a Microwave-Dressed Weakly Anharmonic Superconducting Qubit Coupled to a Single Quantized Mode. Physical Review Letters, 2023, 131, .	7.8	0
534	Observing parity-time symmetry breaking in a Josephson parametric amplifier. Physical Review Research, 2023, 5, .	3.6	0
535	State preparation in a Jaynes-Cummings lattice with quantum optimal control. Scientific Reports, 2023, 13, .	3.3	0
536	Mitigation of quantum crosstalk in cross-resonance-based qubit architectures. Physical Review Applied, 2023, 20, .	3.8	0
537	Optimal quantum resource generation by coupled transmons immersed in Markovian baths. Physical Review A, 2023, 108, .	2.5	0
538	Quantum metric and metrology with parametrically-driven Tavis-Cummings models. Optics Express, 2023, 31, 41669.	3.4	0
539	Quantum Otto-type heat engine with fixed frequency. Physical Review E, 2023, 108, .	2.1	0
540	Free-space coupling and characterization of transverse bulk phonon modes in lithium niobate in a quantum acoustic device. Applied Physics Letters, 2023, 123, .	3.3	0
541	Information Storage and Retrieval in a Photon‧pin System Via Shortcut Drivings. Annalen Der Physik, 0, , .	2.4	0
542	Simulation of quantum optics by coherent state decomposition. , 2023, 1, 78.		1

#	Article	IF	CITATIONS
543	Transition to chaos in extended systems and their quantum impurity models. Journal of Physics A: Mathematical and Theoretical, 0, , .	2.1	0
544	Longitudinal coupling between a <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline" overflow="scroll"&gt;<mml:msub><mml:mrow><mml:mi>Si</mml:mi><mml:mo>/</mml:mo><mml:mi>Si</mml:mi> double quantum dot and an off-chip <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>&lt;<b>ˈតាខ</b>ាl:mr</td><td>ovø&gt;<mml:n< td=""></mml:n<></td></mml:math></mml:mrow></mml:msub></mml:math>	< <b>ˈតាខ</b> ាl:mr	ovø> <mml:n< td=""></mml:n<>
545	Identifying unbound strong bunching and the breakdown of the rotating wave approximation in the quantum Rabi model. Physical Review Research, 2023, 5, .	3.6	0
546	HetArch: Heterogeneous Microarchitectures for Superconducting Quantum Systems. , 2023, , .		0
547	Cavity magnonics with easy-axis ferromagnets: Critically enhanced magnon squeezing and light-matter interaction. Physical Review B, 2023, 108, .	3.2	0
548	Schrieffer-Wolff transformation for non-Hermitian systems: Application for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mi mathvariant="script"&gt;PT -symmetric circuit QED. Physical Review B, 2023, 108, .</mml:mi </mml:math 	3.2	0
549	Time-reversal-symmetry breaking in a scalable cavity QED lattice. Physical Review A, 2023, 108, .	2.5	1
550	Quantum phase transition of the Jaynes-Cummings model. Science China: Physics, Mechanics and Astronomy, 2024, 67, .	5.1	1
551	Superconducting route to quantum computing. , 2023, , .		0
552	Exploration of superconducting multi-mode cavity architectures for quantum computing. , 2023, , .		0
553	Photon-number resolution with microwave Josephson photomultipliers. Physical Review A, 2023, 108, .	2.5	0
554	Remote entangling gate between a quantum dot spin and a transmon qubit mediated by microwave photons. Chinese Physics B, 2024, 33, 020315.	1.4	0
555	Free-electron interactions with photonic GKP states: Universal control and quantum error correction. Physical Review Research, 2023, 5, .	3.6	1
556	Enhancing qubit readout with Bayesian learning. Physical Review A, 2023, 108, .	2.5	0
557	Heralded and robust <i>W</i> -state generation for distant superconducting qubits with practical microwave pulse scattering. Applied Physics Letters, 2023, 123, .	3.3	0
558	Self-Purification and Entanglement Revival in Lambda Matter. New Journal of Physics, 0, , .	2.9	0
559	Shortcut-based generation of transmon-magnon entangled states. Physica Scripta, 0, , .	2.5	0
560	A quantum fluctuation description of charge qubits. New Journal of Physics, 0, , .	2.9	0

	CITATION R	EPORT	
#	ARTICLE	IF	CITATIONS
561	Light–matter interactions in quantum nanophotonic devices. Nature Reviews Physics, 2024, 6, 166-179.	26.6	1
562	Quantum control by effective counterdiabatic driving. Europhysics Letters, 2024, 145, 15001.	2.0	0
563	Controlling the qubit-qubit coupling in the superconducting circuit with double-resonator couplers. Physical Review A, 2024, 109, .	2.5	0
564	Observation and manipulation of quantum interference in a superconducting Kerr parametric oscillator. Nature Communications, 2024, 15, .	12.8	3
565	Maxwell-Schrödinger Modeling of a Superconducting Qubit Coupled to a Transmission Line Network. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2024, 9, 61-74.	2.2	0
566	Error-robust quantum signal processing using Rydberg atoms. Physical Review Research, 2024, 6, .	3.6	0
567	Advances in bosonic quantum error correction with Gottesman–Kitaev–Preskill Codes: Theory, engineering and applications. Progress in Quantum Electronics, 2024, 93, 100496.	7.0	0
568	Optimal energy storage in the Tavis-Cummings quantum battery. Physical Review A, 2024, 109, .	2.5	0
569	Optimal encoding of two dissipative interacting qubits. Physical Review B, 2024, 109, .	3.2	0
570	Quantum transport of charge density wave electrons in layered materials. Materials Today Physics, 2024, 41, 101326.	6.0	0
571	Stability of dissipatively-prepared Mott insulators of photons. Physical Review Research, 2024, 6, .	3.6	0
572	Ultrathin Magnesiumâ€Based Coating as an Efficient Oxygen Barrier for Superconducting Circuit Materials. Advanced Materials, 2024, 36, .	21.0	0
573	Differenceâ€Frequency Generation with and without Quantum Interference in Superconducting Circuits. Advanced Quantum Technologies, 2024, 7, .	3.9	0
574	Entanglement Generation in Capacitively Coupled Transmon–Cavity System. Annalen Der Physik, 0, , .	2.4	0
575	Improving transmon qudit measurement on IBM Quantum hardware. Physical Review Research, 2024, 6,	3.6	0
576	Enhancing the Q-Factor of a Practical Qubit Niobium Three-Dimensional λ/4-Resonator Through Surface Treatment. IEEE Transactions on Applied Superconductivity, 2024, 34, 1-9.	1.7	0
577	The photonic content of a transmission-line pulse. Proceedings of the National Academy of Sciences of the United States of America, 2024, 121, .	7.1	0
578	Efficient quantum simulation of nonlinear interactions using SNAP and Rabi gates. Quantum Science and Technology, 2024, 9, 025004.	5.8	0

		CITATION REPORT		
#	ARTICLE		IF	CITATIONS
579	Programmable Heisenberg interactions between Floquet qubits. Nature Physics, 2024,	20, 240-246.	16.7	0
580	Superconducting microwave cavities and qubits for quantum information systems. Ap Reviews, 2024, 11, .	olied Physics	11.3	1
581	Circuit QED with giant atoms coupling to left-handed superlattice metamaterials. Phys 2024, 109, .	ical Review A,	2.5	1
582	Engineering Quantum Criticality for Quantum Dot Power Harvesting. Chinese Physics 1 020503.	_etters, 2024, 41,	3.3	0
583	Photon-Noise-Tolerant Dispersive Readout of a Superconducting Qubit Using a Nonline Filter. PRX Quantum, 2024, 5, .	ear Purcell	9.2	0
584	Superconducting nitridized-aluminum thin films. Superconductor Science and Technol 035017.	ogy, 2024, 37,	3.5	0
585	Geometric Phase of a Transmon in a Dissipative Quantum Circuit. Entropy, 2024, 26, 8	9.	2.2	0
586	Open-loop linear control of quadratic Hamiltonians with applications. Physical Review /	A, 2024, 109, .	2.5	0
587	Spin-photon interaction in a nanowire quantum dot with asymmetrical confining poter of Physics Condensed Matter, 2024, 36, 195302.	ıtial. Journal	1.8	0
588	Single-Photon Source Over the Terahertz Regime. PRX Quantum, 2024, 5, .		9.2	0
589	Correlated two-leviton states in the fractional quantum Hall regime. Physical Review B,	2024, 109, .	3.2	0
590	Enhancing the ground-state cooling of the magnomechanical mode in a hybrid dual-ca system. Journal of the Optical Society of America B: Optical Physics, 2024, 41, 720.	vity magnonic	2.1	0
591	Molecular nanomagnets: a viable path toward quantum information processing?. Repo in Physics, 2024, 87, 034501.	rts on Progress	20.1	0
592	Strong coupling between a microwave photon and a singlet-triplet qubit. Nature Comr 2024, 15, .	nunications,	12.8	0
593	Error channels in quantum nondemolition measurements on spin systems. Physical Rev	view B, 2024, 109,	3.2	1
594	High-fidelity two-qubit gates of hybrid superconducting-semiconducting singlet-triplet Physical Review B, 2024, 109, .	qubits.	3.2	0
595	Resonant SchrĶdinger cat states in circuit quantum electrodynamics. Physical Review	A, 2024, 109, .	2.5	0
596	Tuning atom-field interaction via phase shaping. Physical Review A, 2024, 109, .		2.5	0

#	Article	IF	Citations
597	Nonperturbative Floquet engineering of the toric-code Hamiltonian and its ground state. Physical Review B, 2024, 109, .	3.2	0
598	Non-Markovian dynamics with a giant atom coupled to a semi-infinite photonic waveguide. Physical Review A, 2024, 109, .	2.5	1
599	Coherence of group-IV color centers. Physical Review B, 2024, 109, .	3.2	0
600	Observation of Josephson harmonics in tunnel junctions. Nature Physics, 0, , .	16.7	2
601	Sequential quantum simulation of spin chains with a single circuit QED device. Physical Review A, 2024, 109, .	2.5	0
602	Observation of quantum oscillations in the extreme weak anharmonic limit. Physical Review B, 2024, 109, .	3.2	0
603	Emergent Macroscopic Bistability Induced by a Single Superconducting Qubit. PRX Quantum, 2024, 5, .	9.2	1
604	Preparation of cavity-Fock-state superpositions by reinforcement learning exploiting measurement backaction. Physical Review A, 2024, 109, .	2.5	0
605	Phase-controlled improvement of photon lifetime in coupled superconducting cavities. Physical Review Applied, 2024, 21, .	3.8	0
606	Broadband coplanar-waveguide-based impedance-transformed Josephson parametric amplifier. Physical Review Research, 2024, 6, .	3.6	0
607	Driven-dissipative Bose-Einstein condensation and the upper critical dimension. Physical Review A, 2024, 109, .	2.5	0
608	Generating symmetry-protected long-range entanglement. Physical Review Research, 2024, 6, .	3.6	0
609	Shallow unitary decompositions of quantum Fredkin and Toffoli gates for connectivity-aware equivalent circuit averaging. , 2024, 1, .		0
610	Signatures of Kondo-Majorana interplay in ac response. Physical Review B, 2024, 109, .	3.2	0
611	Niobium quantum interference microwave circuits with monolithic three-dimensional nanobridge junctions. Physical Review Applied, 2024, 21, .	3.8	0
612	High-Energy Collision of Quarks and Mesons in the Schwinger Model: From Tensor Networks to Circuit QED. Physical Review Letters, 2024, 132, .	7.8	0
613	Recycling of a quantum field and optimal states for single-qubit rotations. Physical Review A, 2024, 109, .	2.5	0
614	Readout-Induced Suppression and Enhancement of Superconducting Qubit Lifetimes. Physical Review Letters, 2024, 132, .	7.8	0

		CITATION REPORT		
#	Article		IF	CITATIONS
615	Tunable strong coupling between a transmon and a magnon. Physical Review A, 2024,	109,.	2.5	0
616	Preparation of Distant Quantum Entanglement and Oneâ€way Quantum Steering in F Cavityâ€Magnonicsâ€andâ€Cavityâ€Optomechanical Systems. Annalen Der Physik, 0,	lybrid ,•	2.4	0
617	Escaping local minima with quantum circuit coherent cooling. Physical Review A, 2024	., 109, .	2.5	0
618	Non-symmetric Pauli spin blockade in a silicon double quantum dot. Npj Quantum Info 10, .	rmation, 2024,	6.7	0
619	Protecting entanglement between logical qubits via quantum error correction. Nature	Physics, O, , .	16.7	0
620	Adiabatic elimination for composite open quantum systems: Reduced-model formulati numerical simulations. Physical Review A, 2024, 109, .	on and	2.5	0
621	Universal and Ultrafast Quantum Computation Based on Free-Electron-Polariton Block Quantum, 2024, 5, .	ade. PRX	9.2	0
622	Model-Based Optimization of Superconducting Qubit Readout. Physical Review Letter	s, 2024, 132, .	7.8	0
623	High-permittivity ceramics enabled highly homogeneous zero-index metamaterials for antennas and beyond. ELight, 2024, 4, .	high-directivity	23.9	0
624	Using quantitative magneto-optical imaging to reveal why the ac susceptibility of supe films is history independent. Physical Review B, 2024, 109, .	erconducting	3.2	0
625	Quantum computing using floating electrons on cryogenic substrates: Potential and c Applied Physics Letters, 2024, 124, .	hallenges.	3.3	0
626	Gate-compatible circuit quantum electrodynamics in a three-dimensional cavity archite Review Applied, 2024, 21, .	ecture. Physical	3.8	0
627	Qumode transfer between continuous- and discrete-variable devices. Physical Review A	4, 2024, 109, .	2.5	0
628	Phase-modulated single-photon router and chiral scattering between two waveguides giant three-level atom. Laser Physics Letters, 2024, 21, 055202.	coupled by a	1.4	0
629	Controllable excitation transfer based on the coupling of an atom with a finite-size Su-Schrieffer-Heeger chain. Physical Review A, 2024, 109, .		2.5	0
630	Molecular optomechanics in the anharmonic regime: from nonclassical mechanical sta mechanical lasing. New Journal of Physics, 2024, 26, 033041.	tes to	2.9	0
631	Photonic quantum metrology with variational quantum optical nonlinearities. Physical Research, 2024, 6, .	Review	3.6	0
632	Particle-field duality in QFT measurements. Physical Review D, 2024, 109, .		4.7	0

		CITATION REPORT		
#	Article	IF	Citations	
633	Stabilization of discrete time-crystalline response on a superconducting quantum computer by increasing the interaction range. Physical Review Research, 2024, 6, .	3.6	0	
634	Using the inductive-energy participation ratio to characterize a superconducting quantum chip. Physical Review Applied, 2024, 21, .	3.8	0	