

# CITATION REPORT

List of articles citing

## Introduction to quantum electromagnetic circuits

DOI: 10.1002/cta.2359

International Journal of Circuit Theory and Applications, 2017, 45, 897-934.

**Source:** <https://exaly.com/paper-pdf/66507960/citation-report.pdf>

**Version:** 2024-04-10

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
147	Harvesting Multiqubit Entanglement from Ultrastrong Interactions in Circuit Quantum Electrodynamics. <i>Physical Review Letters</i> , <b>2017</b> , 119, 183602	7.4	28
146	Microwave photonics with superconducting quantum circuits. <b>2017</b> , 718-719, 1-102		523
145	Guest Editorial Special Issue on Quantum Circuits. <i>International Journal of Circuit Theory and Applications</i> , <b>2017</b> , 45, 861-863	2	
144	Quantum information processing with superconducting circuits: a review. <b>2017</b> , 80, 106001		398
143	Modeling of electrical and mesoscopic circuits at quantum nanoscale from heat momentum operator. <b>2018</b> , 98, 90-104		21
142	Coherence properties of the 0-qubit. <i>New Journal of Physics</i> , <b>2018</b> , 20, 043053	2.9	37
141	Qubit parity measurement by parametric driving in circuit QED. <b>2018</b> , 4, eaau1695		13
140	Breakdown of gauge invariance in ultrastrong-coupling cavity QED. <b>2018</b> , 98,		69
139	Fluxon-based quantum simulation in circuit QED. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	4
138	Nature of the Lamb shift in weakly anharmonic atoms: From normal-mode splitting to quantum fluctuations. <b>2018</b> , 98,		8
137	Photodetection probability in quantum systems with arbitrarily strong light-matter interaction. <i>Scientific Reports</i> , <b>2018</b> , 8, 17825	4.9	9
136	Microwave-activated controlled-Z gate for fixed-frequency fluxonium qubits. <b>2018</b> , 98,		7
135	Itinerant Microwave Photon Detector. <i>Physical Review Letters</i> , <b>2018</b> , 120, 203602	7.4	18
134	Tunable ohmic environment using Josephson junction chains. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	10
133	Driving Forbidden Transitions in the Fluxonium Artificial Atom. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4.3	14
132	Passive On-Chip Superconducting Circulator Using a Ring of Tunnel Junctions. <i>Physical Review Letters</i> , <b>2018</b> , 120, 213602	7.4	24
131	Direct Dispersive Monitoring of Charge Parity in Offset-Charge-Sensitive Transmons. <i>Physical Review Applied</i> , <b>2019</b> , 12,	4.3	33

130	Quantized Single-Ion-Channel Hodgkin-Huxley Model for Quantum Neurons. <i>Physical Review Applied</i> , <b>2019</b> , 12,	4-3	5
129	Mesoscopic Hamiltonian for Josephson traveling-wave parametric amplifiers. <b>2019</b> , 99,		4
128	A Low-Power Microwave HEMT $\lambda/4$ Oscillator Operating Down to 1.4 K. <b>2019</b> , 67, 2782-2792		7
127	Transmission spectra of an ultrastrongly coupled qubit-dissipative resonator system. <b>2019</b> , 2019, 104002		6
126	Ultrastrong-coupling circuit QED in the radio-frequency regime. <b>2019</b> , 100,		3
125	Entangling continuous variables with a qubit array. <i>Physical Review B</i> , <b>2019</b> , 100,	3-3	1
124	Hybrid architecture for engineering magnonic quantum networks. <b>2019</b> , 100,		8
123	A quantum engineer's guide to superconducting qubits. <b>2019</b> , 6, 021318		358
122	Axiomatic construction of quantum Langevin equations. <b>2019</b> , 2019, 053101		4
121	Circuit quantization in the presence of time-dependent external flux. <i>Physical Review B</i> , <b>2019</b> , 99,	3-3	8
120	Quantum dynamics of the small-polaron formation in a superconducting analog simulator. <i>Physical Review B</i> , <b>2019</b> , 99,	3-3	5
119	Controllable two-qubit swapping gate using superconducting circuits. <i>Physical Review B</i> , <b>2019</b> , 99,	3-3	4
118	Observation and stabilization of photonic Fock states in a hot radio-frequency resonator. <b>2019</b> , 363, 1072-1075		19
117	A tunable quantum dissipator for active resonator reset in circuit QED. <b>2019</b> , 4, 025001		8
116	Development and characterization of a flux-pumped lumped element Josephson parametric amplifier. <b>2019</b> , 198, 00008		1
115	Realizing time crystals in discrete quantum few-body systems. <i>Physical Review B</i> , <b>2019</b> , 99,	3-3	14
114	Linear response theory of Josephson junction arrays in a microwave cavity. <i>Physical Review B</i> , <b>2019</b> , 99,	3-3	1
113	Broadband microwave spectroscopy of semiconductor nanowire-based Cooper-pair transistors. <i>Physical Review B</i> , <b>2019</b> , 99,	3-3	3

112	Planar Architecture for Studying a Fluxonium Qubit. <b>2019</b> , 110, 574-579		3
111	Quantum supremacy using a programmable superconducting processor. <b>2019</b> , 574, 505-510		1760
110	Two-dimensional hard-core Bose-Hubbard model with superconducting qubits. <i>Npj Quantum Information</i> , <b>2020</b> , 6,	8.6	9
109	High-Contrast ZZ Interaction Using Superconducting Qubits with Opposite-Sign Anharmonicity. <i>Physical Review Letters</i> , <b>2020</b> , 125, 200503	7.4	14
108	Analogue gravity on a superconducting chip. <b>2020</b> , 378, 20190224		4
107	Continuous measurements for control of superconducting quantum circuits. <b>2020</b> , 5, 1813626		0
106	Current Detection Using a Josephson Parametric Upconverter. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	0
105	Propagation of microwave photons along a synthetic dimension. <b>2020</b> , 101,		3
104	Quantum thermal transistor in superconducting circuits. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	12
103	Bare-Excitation Ground State of a Spinless-Fermion-Boson Model and W-State Engineering in an Array of Superconducting Qubits and Resonators. <i>Physical Review Letters</i> , <b>2020</b> , 124, 190504	7.4	4
102	Quantum Computer Systems: Research for Noisy Intermediate-Scale Quantum Computers. <b>2020</b> , 15, 1-227		1
101	A unidirectional on-chip photonic interface for superconducting circuits. <i>Npj Quantum Information</i> , <b>2020</b> , 6,	8.6	13
100	The Energetic Cost of Work Extraction. <i>Physical Review Letters</i> , <b>2020</b> , 124, 130601	7.4	22
99	Absence of a Dissipative Quantum Phase Transition in Josephson Junctions. <b>2020</b> , 10,		7
98	Superconducting Josephson-Based Metamaterials for Quantum-Limited Parametric Amplification: A Review. <b>2020</b> ,		2
97	Stabilization of a Majorana zero mode through quantum frustration. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
96	Quantum Computing: An Introduction for Microwave Engineers. <b>2020</b> , 21, 24-44		10
95	Quantum information processing and quantum optics with circuit quantum electrodynamics. <b>2020</b> , 16, 247-256		86

94	Single-step implementation of high-fidelity n-bit Toffoli gates. <b>2020</b> , 101,		16
93	QuCAT: quantum circuit analyzer tool in Python. <i>New Journal of Physics</i> , <b>2020</b> , 22, 013025	2.9	4
92	Gate-based superconducting quantum computing. <b>2021</b> , 129, 041102		6
91	Nonequilibrium quantum critical steady state: Transport through a dissipative resonant level. <b>2021</b> , 3,		1
90	Quantum system dynamics with a weakly nonlinear Josephson junction bath. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	
89	Hardware-Encoding Grid States in a Nonreciprocal Superconducting Circuit. <b>2021</b> , 11,		4
88	Automated design of superconducting circuits and its application to 4-local couplers. <i>Npj Quantum Information</i> , <b>2021</b> , 7,	8.6	3
87	Quantum Metamaterial for Broadband Detection of Single Microwave Photons. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	7
86	Experimental Realization of a Protected Superconducting Circuit Derived from the 0D Qubit. <i>PRX Quantum</i> , <b>2021</b> , 2,	6.1	16
85	Weyl Josephson circuits. <b>2021</b> , 3,		6
84	Stoquasticity in circuit QED. <b>2021</b> , 103,		1
83	Circuit quantum electrodynamics. <b>2021</b> , 93,		92
82	Bath-Induced Collective Phenomena on Superconducting Qubits: Synchronization, Subradiance, and Entanglement Generation. <b>2021</b> , 533, 2100038		5
81	Proposal for Entangling Gates on Fluxonium Qubits via a Two-Photon Transition. <i>PRX Quantum</i> , <b>2021</b> , 2,	6.1	2
80	Quantum dynamics of a single fluxon in Josephson-junction parallel arrays with large kinetic inductances. <b>2021</b> , 103,		0
79	Lattice gauge theory and dynamical quantum phase transitions using noisy intermediate-scale quantum devices. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	3
78	Chiral states and nonreciprocal phases in a Josephson junction ring. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
77	Quantum computation and simulation with superconducting qubits*. <b>2021</b> , 30, 080304		1

76	Initial Design of a W-Band Superconducting Kinetic Inductance Qubit. <b>2021</b> , 31, 1-5		1
75	A Method to Compute the Schrieffer-Wolff Generator for Analysis of Quantum Memory. <b>2021</b> , 23,		
74	Charge sensitivity of a cavity-embedded Cooper pair transistor limited by single-photon shot noise. <b>2021</b> , 130, 114401		0
73	Engineering Dissipation with Resistive Elements in Circuit Quantum Electrodynamics. <b>2021</b> , 4, 2100054		3
72	Macroscopic Circuit Quantum Electrodynamics: A New Look Toward Developing Full-Wave Numerical Models. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , <b>2021</b> , 1-1	1.5	2
71	Quantum Bits with Josephson Junctions. <b>2019</b> , 703-741		16
70	Heat transport in overdamped quantum systems. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	1
69	Native three-body interaction in superconducting circuits. <b>2019</b> , 1,		8
68	Coherent router for quantum networks with superconducting qubits. <b>2020</b> , 2,		3
67	Simple implementation of high fidelity controlled-iswap gates and quantum circuit exponentiation of non-Hermitian gates. <b>2020</b> , 2,		0
66	Hidden time-reversal symmetry in dissipative reciprocal systems. <b>2019</b> , 27, 14328-14337		11
65	Quantized Three-Ion-Channel Neuron Model for Neural Action Potentials. <i>Quantum - the Open Journal for Quantum Science</i> , 4, 224		3
64	Spatial Evolution of Quantized Discrete-Mode Operators in a Lossy Nonlinear Josephson-Embedded Transmission Line. <b>2021</b> ,		
63	Conductance of a dissipative quantum dot: Nonequilibrium crossover near a non-Fermi-liquid quantum critical point. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
62	Physical Implementations of Quantum Absorption Refrigerators. <b>2018</b> , 149-174		2
61	Positive Real Properties and Physical Realizability Conditions For a Class of Linear Quantum Systems. <b>2020</b> , 53, 281-286		0
60	Quantum Computer-Aided Design: Digital Quantum Simulation of Quantum Processors. <i>Physical Review Applied</i> , <b>2021</b> , 16,	4.3	2
59	Phonon-number resolution of voltage-biased mechanical oscillators with weakly anharmonic superconducting circuits. <b>2021</b> , 104,		1

58	Rescaling of applied oscillating voltages in small Josephson junctions. <b>2020</b> , 4, 105007		1
57	Teaching quantum computing with an interactive textbook. <b>2021</b> ,		0
56	Quantum model for rf-SQUID-based metamaterials enabling three-wave mixing and four-wave mixing traveling-wave parametric amplification. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	5
55	Transmission spectra of the driven, dissipative Rabi model in the ultrastrong-coupling regime. <b>2021</b> , 104,		2
54	Practical Guide for Building Superconducting Quantum Devices. <i>PRX Quantum</i> , <b>2021</b> , 2,	6.1	5
53	Geometric Superinductance Qubits: Controlling Phase Delocalization across a Single Josephson Junction. <i>PRX Quantum</i> , <b>2021</b> , 2,	6.1	0
52	Suppressed Crosstalk between Two-Junction Superconducting Qubits with Mode-Selective Exchange Coupling. <i>Physical Review Applied</i> , <b>2021</b> , 16,	4.3	0
51	Scqubits: a Python package for superconducting qubits. <i>Quantum - the Open Journal for Quantum Science</i> , 5, 583		3
50	The tunable 0 $\pi$ qubit: Dynamics and relaxation.		1
49	Spin-Boson Quantum Phase Transition in Multilevel Superconducting Qubits.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 237702	7.4	1
48	High-fidelity Storage and On-demand Retrieval of Quantum States via a Microwave Waveguide. <b>2022</b> ,		
47	Application of the Diamond Gate in Quantum Fourier Transformations and Quantum Machine Learning. <i>Physical Review Applied</i> , <b>2022</b> , 17,	4.3	1
46	Circuit quantization with time-dependent magnetic fields for realistic geometries. <i>Npj Quantum Information</i> , <b>2022</b> , 8,	8.6	0
45	Superconducting circuit architecture for digital-analog quantum computing. <i>EPJ Quantum Technology</i> , <b>2022</b> , 9,	6.9	
44	Canonical quantisation of telegrapher&apos;s equations coupled by ideal nonreciprocal elements. <i>Quantum - the Open Journal for Quantum Science</i> , 6, 681		0
43	The qutrit as a heat diode and circulator. <i>New Journal of Physics</i> , <b>2021</b> , 23, 125006	2.9	2
42	Low-Loss Ferrite Circulator as a Tunable Chiral Quantum System. <i>Physical Review Applied</i> , <b>2021</b> , 16,	4.3	0
41	Protected solid-state qubits. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 260502	3.4	0

40	Tensor Monopoles in superconducting systems. <i>Quantum - the Open Journal for Quantum Science</i> , 5, 601		o
39	Superconducting Circuit Companion—An Introduction with Worked Examples. <i>PRX Quantum</i> , <b>2021</b> , 2,	6.1	o
38	Full-Wave Methodology to Compute the Spontaneous Emission Rate of a Transmon Qubit. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , <b>2022</b> , 7, 92-101	1.5	
37	Enhancement of the optomechanical coupling and Kerr nonlinearity using the Josephson capacitance of a Cooper-pair box. <i>Physical Review B</i> , <b>2022</b> , 105,	3.3	o
36	Hamiltonian of a flux qubit-LC oscillator circuit in the deep-strong-coupling regime.. <i>Scientific Reports</i> , <b>2022</b> , 12, 6764	4.9	
35	A unifying network approach for circuits simplification and equivalent resistances, capacitors and inductors evaluation. <i>Physics Education</i> , <b>2022</b> , 57, 045031	0.8	
34	Single charge transport in a fully superconducting SQUSET locally tuned by self-inductance effects. <i>AIP Advances</i> , <b>2022</b> , 12, 055122	1.5	o
33	Synthesis of Parametrically Coupled Networks. <i>PRX Quantum</i> , <b>2022</b> , 3,	6.1	2
32	Increasing fan-in and fan-out of the quantum phase slip junction-based logic gates. <i>International Journal of Circuit Theory and Applications</i> ,	2	1
31	The Transmon Qubit for Electromagnetics Engineers: An Introduction.. <i>IEEE Antennas and Propagation Magazine</i> , <b>2022</b> , 2-14	1.7	o
30	Hybrid ferromagnetic transmon qubit: Circuit design, feasibility, and detection protocols for magnetic fluctuations. <i>Physical Review B</i> , <b>2022</b> , 105,	3.3	2
29	Quantum Wheatstone Bridge. <i>Physical Review Letters</i> , <b>2022</b> , 128,	7.4	o
28	Engineering the speedup of quantum tunneling in Josephson systems via dissipation. <i>Physical Review B</i> , <b>2022</b> , 106,	3.3	
27	Analog Quantum Control of Magnonic Cat States on a Chip by a Superconducting Qubit. <i>Physical Review Letters</i> , <b>2022</b> , 129,	7.4	1
26	Algebraic canonical quantization of lumped superconducting networks. <i>Physical Review B</i> , <b>2022</b> , 106,	3.3	o
25	Electromotive force in driven topological quantum circuits. <b>2022</b> , 106,		o
24	Quantum fluctuations in electrical multiport linear systems. <b>2022</b> , 106,		
23	CircuitQ: An open-source toolbox for superconducting circuits.		o

22	Energetics of a Single Qubit Gate. <b>2022</b> , 129,	0
21	Quantum Machine Learning Applications in the Biomedical Domain: A Systematic Review. <b>2022</b> , 10, 80463-80484	1
20	Fast Flux Entangling Gate for Fluxonium Circuits. <b>2022</b> , 18,	0
19	Computer-aided quantization and numerical analysis of superconducting circuits.	1
18	Dynamics of a dispersively coupled transmon qubit in the presence of a noise source embedded in the control line. <b>2022</b> , 106,	0
17	Significant optoelectrical entanglement and mechanical squeezing in a multimodulated optoelectromechanical system. <b>2022</b> , 106,	0
16	Superconducting Qubits as Musical Synthesizers for Live Performance. <b>2022</b> , 447-464	0
15	Implications of gauge freedom for nonrelativistic quantum electrodynamics. <b>2022</b> , 94,	1
14	Unimon qubit. <b>2022</b> , 13,	0
13	Topological phases in interacting spin-1 systems. <b>2022</b> , 106,	0
12	Microwave-activated gates between a fluxonium and a transmon qubit. <b>2022</b> , 4,	0
11	Green Kubo formula for electrical conductivity of a driven $\phi$ qubit. <b>2022</b> , 213, 1727-1737	0
10	<del>Green Kubo</del> formula for electrical conductivity of a driven $\phi$ qubit. <b>2022</b> , 213, 482-494	0
9	Multi-mode architectures for noise-resilient superconducting qubits. <b>2023</b> , 36, 023001	1
8	Fast High-Fidelity Gates for Galvanically-Coupled Fluxonium Qubits Using Strong Flux Modulation. <b>2022</b> , 3,	0
7	Hybrid quantum thermal machines with dynamical couplings. <b>2023</b> , 26, 106235	0
6	Circuit quantum electrodynamic model of dissipative-dispersive Josephson traveling-wave parametric amplifiers. <b>2023</b> , 107,	1
5	Optimal quantum parametric feedback cooling. <b>2023</b> , 107,	0

- 4 A Circuit Theory Perspective on the Modeling and Analysis of Vibration Energy Harvesting Systems: A Review. **2023**, 11, 45 ○
- 3 Noisy intermediate-scale quantum computers. **2023**, 18, ○
- 2 Time-Dependent Magnetic Flux in Devices for Circuit Quantum Electrodynamics. **2023**, 19, ○
- 1 Accurate Methods for the Analysis of Strong-Drive Effects in Parametric Gates. **2023**, 19, ○