Chui-Ping Yang

List of Publications by Year
in descending order

84 papers	2,469 citations	236925 25 h-index	206112 48 g-index
84 all docs	84 docs citations	84 times ranked	1138 citing authors

#	Article	IF	Citations
1	10-Qubit Entanglement and Parallel Logic Operations with a Superconducting Circuit. Physical Review Letters, 2017, 119, 180511.	7.8	313
2	Possible realization of entanglement, logical gates, and quantum-information transfer with superconducting-quantum-interference-device qubits in cavity QED. Physical Review A, 2003, 67, .	2.5	248
3	Efficient many-party controlled teleportation of multiqubit quantum information via entanglement. Physical Review A, 2004, 70, .	2.5	206
4	Quantum Information Transfer and Entanglement with SQUID Qubits in Cavity QED: A Dark-State Scheme with Tolerance for Nonuniform Device Parameter. Physical Review Letters, 2004, 92, 117902.	7.8	179
5	Generating entanglement between microwave photons and qubits in multiple cavities coupled by a superconducting qutrit. Physical Review A, 2013, 87, .	2.5	92
6	n-qubit-controlled phase gate with superconducting quantum-interference devices coupled to a resonator. Physical Review A, 2005, 72, .	2.5	89
7	Realization of ann-qubit controlled-Ugate with superconducting quantum interference devices or atoms in cavity QED. Physical Review A, 2006, 73, .	2.5	82
8	Phase gate of one qubit simultaneously controlling<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>n</mml:mi></mml:mrow></mml:math>qubits in a cavity. Physical Review A, 2010, 81, .	2.5	72
9	Generation of Greenberger-Horne-Zeilinger entangled states of photons in multiple cavities via a superconducting qutrit or an atom through resonant interaction. Physical Review A, 2012, 86, .	2.5	70
10	Fast and simple scheme for generating NOON states of photons in circuit QED. Scientific Reports, 2014, 4, 3898.	3.3	51
11	Arbitrary control of coherent dynamics for distant qubits in a quantum network. Physical Review A, 2010, 82, .	2.5	50
12	Multiqubit tunable phase gate of one qubit simultaneously controlling<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>n</mml:mi></mml:mrow></mml:math>qubits in a cavity. Physical Review A, 2010, 82, .	2.5	50
13	A Proposal of Teleportation for Three-Particle Entangled State. Chinese Physics Letters, 1999, 16, 628-629.	3.3	47
14	Entangling superconducting qubits in a multi-cavity system. New Journal of Physics, 2016, 18, 013025.	2.9	41
15	Simplified realization of two-qubit quantum phase gate with four-level systems in cavity QED. Physical Review A, 2004, 70, .	2.5	39
16	Quantum information transfer with superconducting flux qubits coupled to a resonator. Physical Review A, 2010, 82, .	2.5	34
17	Generation of a macroscopic entangled coherent state using quantum memories in circuit QED. Scientific Reports, 2016, 6, 32004.	3.3	33
18	Quantum Delayed-Choice Experiment with a Beam Splitter in a Quantum Superposition. Physical Review Letters, 2015, 115, 260403.	7.8	32

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19	Entanglement generation and quantum information transfer between spatially-separated qubits in different cavities. New Journal of Physics, 2013, 15, 115003.	2.9	31
20	Preparation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>n</mml:mi></mml:mrow></mml:math>-qubit Greenberger-Horne-Zeilinger entangled states in cavity QED: An approach with tolerance to nonidentical qubit-cavity coupling constants. Physical Review A, 2011, 83, .	2.5	29
21	Single-step implementation of a multiple-target-qubit controlled phase gate without need of classical pulses. Optics Letters, 2014, 39, 3312.	3.3	29
22	A scheme for the teleportation of multiqubit quantum information via the control of many agents in a network. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 343, 267-273.	2.1	28
23	Efficient scheme for generation of photonic NOON states in circuit QED. Optics Letters, 2015, 40, 2221.	3.3	28
24	Entangling two oscillators with arbitrary asymmetric initial states. Physical Review A, 2017, 95, .	2.5	28
25	Rotation gate for a three-level superconducting quantum interference device qubit with resonant interaction. Physical Review A, 2006, 74, .	2.5	27
26	Generation of generalized hybrid entanglement in cavity electroâ€“optic systems. Quantum Science and Technology, 2021, 6, 025003.	5.8	24
27	Conventional photon blockade with a three-wave mixing. Physical Review A, 2020, 102, .	2.5	23
28	Universal controlled-phase gate with cat-state qubits in circuit QED. Physical Review A, 2017, 96, .	2.5	21
29	One-step implementation of a multi-target-qubit controlled phase gate with cat-state qubits in circuit QED. Frontiers of Physics, 2019, 14, 1.	5.0	21
30	Multi-target-qubit unconventional geometric phase gate in a multi-cavity system. Scientific Reports, 2016, 6, 21562.	3.3	20
31	Deterministic generation of Greenbergerâ€“Horneâ€“Zeilinger entangled states of cat-state qubits in circuit QED. Optics Letters, 2018, 43, 5126.	3.3	19
32	Generating double NOON states of photons in circuit QED. Physical Review A, 2017, 95, .	2.5	18
33	Experimental demonstration of quantum walks with initial superposition states. Npj Quantum Information, 2019, 5, .	6.7	18
34	Circuit QED: single-step realization of a multiqubit controlled phase gate with one microwave photonic qubit simultaneously controlling n âˆ’ 1 microwave photonic qubits. Optics Express, 2018, 26, 30689.	3.4	17
35	Experimental demonstration of coherence flow in PT- and anti-PT-symmetric systems. Communications Physics, 2021, 4, .	5.3	17
36	Efficient transfer of an arbitrary qutrit state in circuit quantum electrodynamics. Optics Letters, 2015, 40, 5602.	3.3	15

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37	Controlled teleportation with the control of two groups of agents via entanglement. Quantum Information Processing, 2015, 14, 1055-1068.	2.2	15
38	Transferring arbitrary d-dimensional quantum states of a superconducting transmon qudit in circuit QED. Scientific Reports, 2017, 7, 7039.	3.3	15
39	Experimental simulation of a quantum channel without the rotating-wave approximation: testing quantum temporal steering. Optica, 2017, 4, 1065.	9.3	15
40	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -photon blockade with an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -photon parametric drive. Physical Review A, 2021, 104, .	2.5	15
41	Multiplex-controlled phase gate with qubits distributed in a multicavity system. Physical Review A, 2018, 97, .	2.5	14
42	Implementing a multi-target-qubit controlled-not gate with logical qubits outside a decoherence-free subspace and its application in creating quantum entangled states. Physical Review A, 2020, 101, .	2.5	14
43	Quantum logical gates with four-level superconducting quantum interference devices coupled to a superconducting resonator. Physical Review A, 2010, 82, .	2.5	13
44	Crosstalk-insensitive method for simultaneously coupling multiple pairs of resonators. Physical Review A, 2016, 93, .	2.5	13
45	One-step implementation of a coherent conversion between microwave and optical cavities via an ensemble of nitrogen-vacancy centers. Physical Review A, 2021, 103, .	2.5	13
46	Generation of hybrid Greenberger-Horne-Zeilinger entangled states of particlelike and wavelike optical qubits in circuit QED. Physical Review A, 2020, 101, .	2.5	12
47	Proposal for realizing a multiqubit tunable phase gate of one qubit simultaneously controllingntarget qubits using cavity QED. Physical Review A, 2012, 86, .	2.5	11
48	Transferring entangled states of photonic cat-state qubits in circuit QED. Frontiers of Physics, 2020, 15, 1.	5.0	11
49	Generalized coupling system between a superconducting qubit and two nanomechanical resonators. Physical Review A, 2018, 98, .	2.5	10
50	Nonadiabatic quantum state engineering by time-dependent decoherence-free subspaces in open quantum systems. New Journal of Physics, 2021, 23, 113005.	2.9	10
51	Generating multipartite entangled states of qubits distributed in different cavities. Quantum Information Processing, 2014, 13, 1381-1395.	2.2	9
52	One-step transfer or exchange of arbitrary multipartite quantum states with a single-qubit coupler. Physical Review B, 2015, 92, .	3.2	9
53	Generation of quantum entangled states of multiple groups of qubits distributed in multiple cavities. Physical Review A, 2020, 101, .	2.5	9
54	Universal quantum gate with hybrid qubits in circuit quantum electrodynamics. Optics Letters, 2018, 43, 5765.	3.3	9

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55	Deterministic transfer of multiqubit GHZ entangled states and quantum secret sharing between different cavities. Quantum Information Processing, 2015, 14, 4461-4474.	2.2	8
56	Preparation of entangled W states with cat-state qubits in circuit QED. Quantum Information Processing, 2020, 19, 1.	2.2	8
57	Efficient scheme for realizing a multiplex-controlled phase gate with photonic qubits in circuit quantum electrodynamics. Frontiers of Physics, 2022, 17, .	5.0	8
58	Single-step implementation of a hybrid controlled-not gate with one superconducting qubit simultaneously controlling multiple target cat-state qubits. Physical Review A, 2022, 105, .	2.5	7
59	Non-Markovianity in experimentally simulated quantum channels: Role of counterrotating-wave terms. Physical Review A, 2019, 100, .	2.5	6
60	Implementing a quantum search algorithm with nonorthogonal states. Physical Review A, 2021, 103, .	2.5	6
61	Construction of a qudit using SchrÃ¶dinger cat states and generation of hybrid entanglement between a discrete-variable qudit and a continuous-variable qudit. Physical Review A, 2021, 104, .	2.5	6
62	Efficient scheme for creating a W-type optical entangled coherent state. Optics Express, 2020, 28, 35622.	3.4	6
63	Entanglement dynamics in anti- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math> -symmetric systems. Physical Review Research, 2022, 4, .	3.6	6
64	Transferring quantum entangled states between multiple single-photon-state qubits and coherent-state qubits in circuit QED. Frontiers of Physics, 2021, 16, 1.	5.0	5
65	Generation of an Enhanced Multiâ€Mode Optomechanicalâ€Like Quantum System and Its Application in Creating Hybrid Entangled States. Annalen Der Physik, 2022, 534, .	2.4	5
66	A proposal for implementing ann-qubit controlled-rotation gate with three-level superconducting qubit systems in cavity QED. Journal of Physics Condensed Matter, 2011, 23, 225702.	1.8	4
67	Generation of macroscopic entangled coherent states with large Josephson junctions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1536-1539.	2.1	4
68	Scalable quantum information transfer between nitrogen-vacancy-center ensembles. Annals of Physics, 2015, 355, 170-181.	2.8	4
69	Circuit QED: generation of two-transmon-qutrit entangled states via resonant interaction. Quantum Information Processing, 2018, 17, 1.	2.2	4
70	Quantum Interface between a Superconducting Qubit and Spin Ensembles. Annalen Der Physik, 2019, 531, 1900036.	2.4	4
71	One-step transfer of quantum information for a photonic cat-state qubit. Quantum Information Processing, 2020, 19, 1.	2.2	3
72	Hybrid controlled-sum gate with one superconducting qutrit and one cat-state qutrit and application in hybrid entangled state preparation. Physical Review A, 2022, 105, .	2.5	3

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73	Transfer of quantum entangled states between superconducting qubits and microwave field qubits. Frontiers of Physics, 2022, 17, .	5.0	3
74	Transferring multiqubit entanglement onto memory qubits in a decoherence-free subspace. Quantum Information Processing, 2017, 16, 1.	2.2	2
75	Coherence and quantum Fisher information in general single-qubit parameter estimation processes. Physical Review A, 2021, 104, .	2.5	2
76	A small error-correction code for protecting three-qubit quantum information. JETP Letters, 2004, 79, 236-240.	1.4	1
77	Preparing Greenbergerâ€"Horneâ€"Zeilinger Entangled Photon Fock States of Three Cavities Coupled by a Superconducting Flux Qutrit. Journal of the Physical Society of Japan, 2013, 82, 084801.	1.6	1
78	Circuit QED: implementation of the three-qubit refined Deutschâ€"Jozsa quantum algorithm. Quantum Information Processing, 2014, 13, 2769-2782.	2.2	1
79	Controllable coupling between a charge qubit and a spin ensemble. Physical Review A, 2014, 89, .	2.5	1
80	Transferring multipartite entanglement among different cavities. Quantum Information Processing, 2016, 15, 215-231.	2.2	1
81	Fast preparation of entangled states of two qutrits in cavity or circuit QED. Journal of Modern Optics, 2019, 66, 891-897.	1.3	1
82	Two-Photon Blockade with Second-Order Nonlinearity in Cavity Systems. International Journal of Theoretical Physics, 2022, 61, 1.	1.2	1
83	Proposal for Implementing the Three-Qubit Refined Deutschâ€"Jozsa Quantum Algorithm. Journal of the Physical Society of Japan, 2013, 82, 084802.	1.6	0
84	Quantum Optical Switching Based on Local Single-excitation Resonance. International Journal of Theoretical Physics, 2020, 59, 2606-2616.	1.2	0