

Ye-Hong Chen

List of Publications by Year in descending order

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55
papers

1,536
citations

236925

25
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315739

38
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57
all docs

57
docs citations

57
times ranked

423
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient shortcuts to adiabatic passage for fast population transfer in multiparticle systems. Physical Review A, 2014, 89, .	2.5	132
2	Fast and noise-resistant implementation of quantum phase gates and creation of quantum entangled states. Physical Review A, 2015, 91, .	2.5	124
3	Method for constructing shortcuts to adiabaticity by a substitute of counterdiabatic driving terms. Physical Review A, 2016, 93, .	2.5	93
4	Shortcuts to Adiabaticity for the Quantum Rabi Model: Efficient Generation of Giant Entangled Cat States via Parametric Amplification. Physical Review Letters, 2021, 126, 023602.	7.8	88
5	Fast preparation of W states with superconducting quantum interference devices by using dressed states. Physical Review A, 2016, 94, .	2.5	77
6	Nonadiabatic holonomic quantum computation using Rydberg blockade. Physical Review A, 2018, 97, .	2.5	63
7	Shortcuts to adiabatic passage for fast generation of Greenberger-Horne-Zeilinger states by transitionless quantum driving. Scientific Reports, 2015, 5, 15616.	3.3	57
8	Fast generation of three-atom singlet state by transitionless quantum driving. Scientific Reports, 2016, 6, 22202.	3.3	44
9	Shortcuts to adiabatic passage for multiparticles in distant cavities: applications to fast and noise-resistant quantum population transfer, entangled states' preparation and transition. Laser Physics Letters, 2014, 11, 115201.	1.4	43
10	Fast generation of W states of superconducting qubits with multiple Schrödinger dynamics. Scientific Reports, 2016, 6, 36737.	3.3	43
11	Nonadiabatic geometric quantum computation with cat-state qubits via invariant-based reverse engineering. Physical Review Research, 2022, 4, .	3.6	43
12	Reverse engineering of a Hamiltonian by designing the evolution operators. Scientific Reports, 2016, 6, 30151.	3.3	42
13	Optimal shortcut approach based on an easily obtained intermediate Hamiltonian. Physical Review A, 2017, 95, .	2.5	36
14	Fast quantum state engineering via universal $SU(2)$ transformation. Physical Review A, 2017, 96, .	2.5	34
15	Complete Bell-state analysis for superconducting-quantum-interference-device qubits with a transitionless tracking algorithm. Physical Review A, 2017, 96, .	2.5	34
16	Invariant-based inverse engineering for fluctuation transfer between membranes in an optomechanical cavity system. Physical Review A, 2018, 97, .	2.5	34
17	Accelerated and noise-resistant generation of high-fidelity steady-state entanglement with Rydberg atoms. Physical Review A, 2018, 97, .	2.5	33
18	Improving the stimulated Raman adiabatic passage via dissipative quantum dynamics. Optics Express, 2016, 24, 22847.	3.4	30

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19	Quantum state transfer in spin chains via shortcuts to adiabaticity. <i>Physical Review A</i> , 2018, 97, .	2.5	30
20	Fast and high-fidelity generation of steady-state entanglement using pulse modulation and parametric amplification. <i>Physical Review A</i> , 2019, 100, .	2.5	29
21	Fast and dephasing-tolerant preparation of steady Knill-Laflamme-Milburn states via dissipative Rydberg pumping. <i>Physical Review A</i> , 2021, 103, .	2.5	29
22	Transitionless-based shortcuts for the fast and robust generation of W states. <i>Optics Communications</i> , 2016, 380, 140-147.	2.1	27
23	Pulse design for multilevel systems by utilizing Lie transforms. <i>Physical Review A</i> , 2018, 97, .	2.5	27
24	Fast binomial-code holonomic quantum computation with ultrastrong light-matter coupling. <i>Physical Review Research</i> , 2021, 3, .	3.6	27
25	Strong spin squeezing induced by weak squeezing of light inside a cavity. <i>Nanophotonics</i> , 2020, 9, 4853-4868.	6.0	27
26	Arbitrary quantum state engineering in three-state systems via Counterdiabatic driving. <i>Scientific Reports</i> , 2016, 6, 38484.	3.3	25
27	Fast generating Greenberger-Horne-Zeilinger state via iterative interaction pictures. <i>Laser Physics Letters</i> , 2016, 13, 105202.	1.4	23
28	Fast generation of N -atom Greenberger-Horne-Zeilinger state in separate coupled cavities via transitionless quantum driving. <i>Quantum Information Processing</i> , 2016, 15, 2359-2376.	2.2	22
29	Coherent control in quantum open systems: An approach for accelerating dissipation-based quantum state generation. <i>Physical Review A</i> , 2017, 96, .	2.5	16
30	Two-level systems with periodic N -step driving fields: Exact dynamics and quantum state manipulations. <i>Physical Review A</i> , 2021, 104, .	2.5	16
31	Reverse engineering of a nonlossy adiabatic Hamiltonian for non-Hermitian systems. <i>Physical Review A</i> , 2016, 94, .	2.5	15
32	Deterministic generation of singlet states for N -atoms in coupled cavities via quantum Zeno dynamics. <i>Quantum Information Processing</i> , 2014, 13, 1857-1877.	2.2	14
33	Generation of multi-atom entangled states in coupled cavities via transitionless quantum driving. <i>Quantum Information Processing</i> , 2015, 14, 4475-4492.	2.2	13
34	Fast generation of three-qubit Greenberger-Horne-Zeilinger state based on the Lewis-Riesenfeld invariants in coupled cavities. <i>Scientific Reports</i> , 2016, 6, 25707.	3.3	12
35	Effective protocol for generation of multiple atoms entangled states in two coupled cavities via adiabatic passage. <i>Quantum Information Processing</i> , 2013, 12, 3771-3783.	2.2	11
36	Accelerating Population Transfer in a Transmon Qutrit Via Shortcuts to Adiabaticity. <i>Annalen Der Physik</i> , 2018, 530, 1700351.	2.4	11

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37	Improving Shortcuts to Non-Hermitian Adiabaticity for Fast Population Transfer in Open Quantum Systems. <i>Annalen Der Physik</i> , 2018, 530, 1700247.	2.4	11
38	Effective pulse reverse-engineering for strong field-matter interaction. <i>Optics Letters</i> , 2020, 45, 3597.	3.3	11
39	Fast controlled preparation of two-atom maximally entangled state and N-atom W state in the direct coupled cavity systems via shortcuts to adiabatic passage. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	10
40	Protecting Quantum State in Time-Dependent Decoherence-Free Subspaces Without the Rotating-Wave Approximation. <i>Annalen Der Physik</i> , 2017, 529, 1700186.	2.4	10
41	Invariant-Based Pulse Design for Three-Level Systems Without the Rotating-Wave Approximation. <i>Annalen Der Physik</i> , 2017, 529, 1700004.	2.4	9
42	One-Step Implementation of N-Qubit Nonadiabatic Holonomic Quantum Gates with Superconducting Qubits via Inverse Hamiltonian Engineering. <i>Annalen Der Physik</i> , 2019, 531, 1800427.	2.4	9
43	Generation of three-qubit Greenberger-Horne-Zeilinger state of superconducting qubits via transitionless quantum driving. <i>Laser Physics</i> , 2017, 27, 015202.	1.2	8
44	Rapid generation of a three-dimensional entangled state for two atoms trapped in a cavity via shortcuts to adiabatic passage. <i>Quantum Information Processing</i> , 2017, 16, 1.	2.2	8
45	Generation of three-qubit Greenberger-Horne-Zeilinger states of superconducting qubits by using dressed states. <i>Quantum Information Processing</i> , 2017, 16, 1.	2.2	7
46	Deterministic Generation of a Four-Atom Entangled State in a Two-Dimensional Coupled-Cavity System. <i>International Journal of Theoretical Physics</i> , 2016, 55, 1192-1200.	1.2	6
47	Shortcuts to adiabatic passage for fast preparation of multipartite entanglement among atomic ensembles. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	5
48	One-step deterministic generation of N-atom Greenberger-Horne-Zeilinger states in separate coupled cavities via quantum Zeno dynamics. <i>Journal of Modern Optics</i> , 2015, 62, 1591-1599.	1.3	4
49	Accelerating adiabatic quantum transfer for three-level systems via picture transformation. <i>Annals of Physics</i> , 2017, 379, 102-111.	2.8	3
50	Detecting a single atom in a cavity using the $\chi^{(2)}$ nonlinear medium. <i>Frontiers of Physics</i> , 2022, 17, 1.	5.0	3
51	Fast CNOT gate via shortcuts to adiabatic passage. <i>Journal of Modern Optics</i> , 2016, 63, 1943-1951.	1.3	2
52	Deterministic generation of singlet state of N atoms in coupled cavities via adiabatic passage of a dark state. <i>Journal of Modern Optics</i> , 2016, 63, 92-102.	1.3	2
53	Perfect quantum state engineering by the combination of the counterdiabatic driving and the reverse-engineering technique. <i>Annals of Physics</i> , 2017, 385, 40-56.	2.8	2
54	High-fidelity generating multi-qubit W state via dressed states in the system of multiple resonators coupled with a superconducting qubit. <i>Canadian Journal of Physics</i> , 2018, 96, 81-89.	1.1	1

#	ARTICLE	IF	CITATIONS
55	Efficient implementation of arbitrary quantum state engineering in four-state system by counterdiabatic driving. <i>Laser Physics Letters</i> , 2018, 15, 075201.	1.4	1