

Ye-Hong Chen

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,536
citations

236833

25
h-index

315616

38
g-index

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, . | 1.0 | 132 |
| 2 | Fast and noise-resistant implementation of quantum phase gates and creation of quantum entangled states. Physical Review A, 2015, 91, . | 1.0 | 124 |
| 3 | Method for constructing shortcuts to adiabaticity by a substitute of counterdiabatic driving terms. Physical Review A, 2016, 93, . | 1.0 | 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. | 2.9 | 88 |
| 5 | Fast preparation of W states with superconducting quantum interference devices by using dressed states. Physical Review A, 2016, 94, . | 1.0 | 77 |
| 6 | Nonadiabatic holonomic quantum computation using Rydberg blockade. Physical Review A, 2018, 97, . | 1.0 | 63 |
| 7 | Shortcuts to adiabatic passage for fast generation of Greenberger-Horne-Zeilinger states by transitionless quantum driving. Scientific Reports, 2015, 5, 15616. | 1.6 | 57 |
| 8 | Fast generation of three-atom singlet state by transitionless quantum driving. Scientific Reports, 2016, 6, 22202. | 1.6 | 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. | 0.6 | 43 |
| 10 | Fast generation of W states of superconducting qubits with multiple Schrödinger dynamics. Scientific Reports, 2016, 6, 36737. | 1.6 | 43 |
| 11 | Nonadiabatic geometric quantum computation with cat-state qubits via invariant-based reverse engineering. Physical Review Research, 2022, 4, . | 1.3 | 43 |
| 12 | Reverse engineering of a Hamiltonian by designing the evolution operators. Scientific Reports, 2016, 6, 30151. | 1.6 | 42 |
| 13 | Optimal shortcut approach based on an easily obtained intermediate Hamiltonian. Physical Review A, 2017, 95, . | 1.0 | 36 |
| 14 | Fast quantum state engineering via universal $SU(2)$ transformation. Physical Review A, 2017, 96, . | 1.0 | 34 |
| 15 | Complete Bell-state analysis for superconducting-quantum-interference-device qubits with a transitionless tracking algorithm. Physical Review A, 2017, 96, . | 1.0 | 34 |
| 16 | Invariant-based inverse engineering for fluctuation transfer between membranes in an optomechanical cavity system. Physical Review A, 2018, 97, . | 1.0 | 34 |
| 17 | Accelerated and noise-resistant generation of high-fidelity steady-state entanglement with Rydberg atoms. Physical Review A, 2018, 97, . | 1.0 | 33 |
| 18 | Improving the stimulated Raman adiabatic passage via dissipative quantum dynamics. Optics Express, 2016, 24, 22847. | 1.7 | 30 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Quantum state transfer in spin chains via shortcuts to adiabaticity. <i>Physical Review A</i> , 2018, 97, . | 1.0 | 30 |
| 20 | Fast and high-fidelity generation of steady-state entanglement using pulse modulation and parametric amplification. <i>Physical Review A</i> , 2019, 100, . | 1.0 | 29 |
| 21 | Fast and dephasing-tolerant preparation of steady Knill-Laflamme-Milburn states via dissipative Rydberg pumping. <i>Physical Review A</i> , 2021, 103, . | 1.0 | 29 |
| 22 | Transitionless-based shortcuts for the fast and robust generation of W states. <i>Optics Communications</i> , 2016, 380, 140-147. | 1.0 | 27 |
| 23 | Pulse design for multilevel systems by utilizing Lie transforms. <i>Physical Review A</i> , 2018, 97, . | 1.0 | 27 |
| 24 | Fast binomial-code holonomic quantum computation with ultrastrong light-matter coupling. <i>Physical Review Research</i> , 2021, 3, . | 1.3 | 27 |
| 25 | Strong spin squeezing induced by weak squeezing of light inside a cavity. <i>Nanophotonics</i> , 2020, 9, 4853-4868. | 2.9 | 27 |
| 26 | Arbitrary quantum state engineering in three-state systems via Counterdiabatic driving. <i>Scientific Reports</i> , 2016, 6, 38484. | 1.6 | 25 |
| 27 | Fast generating Greenberger-Horne-Zeilinger state via iterative interaction pictures. <i>Laser Physics Letters</i> , 2016, 13, 105202. | 0.6 | 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. | 1.0 | 22 |
| 29 | Coherent control in quantum open systems: An approach for accelerating dissipation-based quantum state generation. <i>Physical Review A</i> , 2017, 96, . | 1.0 | 16 |
| 30 | Two-level systems with periodic N -step driving fields: Exact dynamics and quantum state manipulations. <i>Physical Review A</i> , 2021, 104, . | 1.0 | 16 |
| 31 | Reverse engineering of a nonlossy adiabatic Hamiltonian for non-Hermitian systems. <i>Physical Review A</i> , 2016, 94, . | 1.0 | 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. | 1.0 | 14 |
| 33 | Generation of multi-atom entangled states in coupled cavities via transitionless quantum driving. <i>Quantum Information Processing</i> , 2015, 14, 4475-4492. | 1.0 | 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. | 1.6 | 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. | 1.0 | 11 |
| 36 | Accelerating Population Transfer in a Transmon Qutrit Via Shortcuts to Adiabaticity. <i>Annalen Der Physik</i> , 2018, 530, 1700351. | 0.9 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Improving Shortcuts to Non-Hermitian Adiabaticity for Fast Population Transfer in Open Quantum Systems. <i>Annalen Der Physik</i> , 2018, 530, 1700247. | 0.9 | 11 |
| 38 | Effective pulse reverse-engineering for strong field-matter interaction. <i>Optics Letters</i> , 2020, 45, 3597. | 1.7 | 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. | 0.6 | 10 |
| 40 | Protecting Quantum State in Time-Dependent Decoherence-Free Subspaces Without the Rotating-Wave Approximation. <i>Annalen Der Physik</i> , 2017, 529, 1700186. | 0.9 | 10 |
| 41 | Invariant-Based Pulse Design for Three-Level Systems Without the Rotating-Wave Approximation. <i>Annalen Der Physik</i> , 2017, 529, 1700004. | 0.9 | 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. | 0.9 | 9 |
| 43 | Generation of three-qubit Greenberger-Horne-Zeilinger state of superconducting qubits via transitionless quantum driving. <i>Laser Physics</i> , 2017, 27, 015202. | 0.6 | 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. | 1.0 | 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. | 1.0 | 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. | 0.5 | 6 |
| 47 | Shortcuts to adiabatic passage for fast preparation of multipartite entanglement among atomic ensembles. <i>European Physical Journal D</i> , 2016, 70, 1. | 0.6 | 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. | 0.6 | 4 |
| 49 | Accelerating adiabatic quantum transfer for three-level systems via picture transformation. <i>Annals of Physics</i> , 2017, 379, 102-111. | 1.0 | 3 |
| 50 | Detecting a single atom in a cavity using the $\chi^{(2)}$ nonlinear medium. <i>Frontiers of Physics</i> , 2022, 17, 1. | 2.4 | 3 |
| 51 | Fast CNOT gate via shortcuts to adiabatic passage. <i>Journal of Modern Optics</i> , 2016, 63, 1943-1951. | 0.6 | 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. | 0.6 | 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. | 1.0 | 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. | 0.4 | 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. | 0.6 | 1 |