Zhi-Cheng Shi

List of Publications by Year
in descending order

48 papers	793 citations	16 h-index (516710)	26 g-index (552781)
49 all docs	49 docs citations	49 times ranked	238 citing authors

#	Article	IF	Citations
1	Fast preparation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>W</mml:mi></mml:math> states with superconducting quantum interference devices by using dressed states. Physical Review A, 2016, 94, .	2.5	77
2	Nonadiabatic holonomic quantum computation using Rydberg blockade. Physical Review A, 2018, 97, .	2.5	63
3	Flexible scheme for the implementation of nonadiabatic geometric quantum computation. Physical Review A, 2020, 101, .	2.5	42
4	Optimal shortcut approach based on an easily obtained intermediate Hamiltonian. Physical Review A, 2017, 95, .	2.5	36
5	Complete Bell-state analysis for superconducting-quantum-interference-device qubits with a transitionless tracking algorithm. Physical Review A, 2017, 96, .	2.5	34
6	Invariant-based inverse engineering for fluctuation transfer between membranes in an optomechanical cavity system. Physical Review A, 2018, 97, .	2.5	34
7	Deterministic interconversions between the Greenberger-Horne-Zeilinger states and the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>W</mml:mi></mml:math> states by invariant-based pulse design. Physical Review A, 2020, 101, .	2.5	34
8	Accelerated and noise-resistant generation of high-fidelity steady-state entanglement with Rydberg atoms. Physical Review A, 2018, 97, .	2.5	33
9	Heralded atomic nonadiabatic holonomic quantum computation with Rydberg blockade. Physical Review A, 2020, 102, .	2.5	33
10	Quantum state transfer in spin chains via shortcuts to adiabaticity. Physical Review A, 2018, 97, .	2.5	30
11	Pulse design for multilevel systems by utilizing Lie transforms. Physical Review A, 2018, 97, .	2.5	27
12	Speeding up adiabatic passage by adding Lyapunov control. Physical Review A, 2017, 96, .	2.5	22
13	Deterministic conversions between Greenberger-Horne-Zeilinger states and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>W</mml:mi></mml:math> states of spin qubits via Lie-transform-based inverse Hamiltonian engineering. Physical Review A, 2019, 100, .	2.5	22
14	Robust single-qubit gates by composite pulses in three-level systems. Physical Review A, 2021, 103, .	2.5	20
15	Optimized nonadiabatic holonomic quantum computation based on FÃ¶rster resonance in Rydberg atoms. Frontiers of Physics, 2022, 17, 1.	5.0	19
16	Pulse reverse engineering for controlling two-level quantum systems. Physical Review A, 2020, 101, .	2.5	17
17	Generation of three-atom singlet state in a bimodal cavity via quantum Zeno dynamics. Quantum Information Processing, 2013, 12, 411-424.	2.2	16
18	Coherent control in quantum open systems: An approach for accelerating dissipation-based quantum state generation. Physical Review A, 2017, 96, .	2.5	16

#	Article	IF	Citations
19	Accelerated and Noiseâ€Resistant Protocol of Dissipationâ€Based Knillâ€"Laflammeâ€"Milburn State Generation with Lyapunov Control. Annalen Der Physik, 2019, 531, 1900006.	2.4	15
20	Fast and Robust Quantum Information Transfer in Annular and Radial Superconducting Networks. Annalen Der Physik, 2017, 529, 1700154.	2.4	14
21	Shortcut Scheme for Oneâ€Step Implementation of a Threeâ€Qubit Nonadiabatic Holonomic Gate. Annalen Der Physik, 2018, 530, 1800179.	2.4	12
22	Generation of nonclassical states in nonlinear oscillators via Lyapunov control. Physical Review A, 2020, 102, .	2.5	12
23	Composite pulses for high fidelity population transfer in three-level systems. New Journal of Physics, 2022, 24, 023014.	2.9	12
24	Accelerating Population Transfer in a Transmon Qutrit Via Shortcuts to Adiabaticity. Annalen Der Physik, 2018, 530, 1700351.	2.4	11
25	Effective pulse reverse-engineering for strong fieldâ€"matter interaction. Optics Letters, 2020, 45, 3597.	3.3	11
26	Protecting Quantum State in Timeâ€Dependent Decoherenceâ€Free Subspaces Without the Rotatingâ€Wave Approximation. Annalen Der Physik, 2017, 529, 1700186.	2.4	10
27	Robust population inversion in three-level systems by composite pulses. Physical Review A, 2022, 105, .	2.5	10
28	Shortcuts to adiabatic for implementing controlled-not gate with superconducting quantum interference device qubits. Quantum Information Processing, 2018, 17, 1.	2.2	9
29	Complete and Nondestructive Atomic Bellâ€State Analysis Assisted by Inverse Engineering. Annalen Der Physik, 2018, 530, 1800133.	2.4	9
30	Oneâ€Step Implementation of N â€Qubit Nonadiabatic Holonomic Quantum Gates with Superconducting Qubits via Inverse Hamiltonian Engineering. Annalen Der Physik, 2019, 531, 1800427.	2.4	9
31	Complete and Nondestructive Atomic Greenbergerâ€"Horneâ€"Zeilingerâ€State Analysis Assisted by Invariantâ€Based Inverse Engineering. Annalen Der Physik, 2019, 531, 1800447.	2.4	9
32	Accelerated and Robust Generation of <i>W</i> State by Parametric Amplification and Inverse Hamiltonian Engineering. Annalen Der Physik, 2020, 532, 2000002.	2.4	9
33	Implementation of universal quantum gates by periodic two-step modulation in a weakly nonlinear qubit. Physical Review A, 2020, 101, .	2.5	9
34	Shortcuts to adiabatic for implementing controlled phase gate with Cooper-pair box qubits in circuit quantum electrodynamics system. Quantum Information Processing, 2019, 18, 1.	2.2	8
35	Generation of three-qubit Greenbergerâ€"Horneâ€"Zeilinger states of superconducting qubits by using dressed states. Quantum Information Processing, 2017, 16, 1.	2.2	7
36	Coherent State Control to Recover Quantum Entanglement and Coherence. Entropy, 2019, 21, 917.	2.2	7

#	ARTICLE	IF	CITATIONS
37	Robust Generation of Logical Qubit Singlet States with Reverse Engineering and Optimal Control with Spin Qubits. Advanced Quantum Technologies, 2020, 3, 2000113.	3.9	7
38	Generation of <i>N</i>â€particle <i>W</i> State with Trapped Î›â€Type Ions by Transitionless Quantum Driving. Annalen Der Physik, 2021, 533, 2000526.	2.4	7
39	High fidelity Dicke-state generation with Lyapunov control in circuit QED system. Annals of Physics, 2018, 396, 44-55.	2.8	6
40	Quantum state engineering by periodical two-step modulation in an atomic system. Optics Express, 2018, 26, 34789.	3.4	6
41	Implementation of Controlledâ€NOT Gate by Lyapunov Control. Annalen Der Physik, 2019, 531, 1900086.	2.4	3
42	Detecting a single atom in a cavity using the Ï‡(2) nonlinear medium. Frontiers of Physics, 2022, 17, 1.	5.0	3
43	Emergence of multipartite optomechanical entanglement in microdisk cavities coupled to nanostring waveguide. Quantum Information Processing, 2013, 12, 3179-3190.	2.2	1
44	High-fidelity generating multi-qubit W state via dressed states in the system of multiple resonators coupled with a superconducting qubit. Canadian Journal of Physics, 2018, 96, 81-89.	1.1	1
45	Efficient Generation of Atomic Singlet State with Rydberg Blockade and Lieâ€Transformâ€Based Pulse Design. Annalen Der Physik, 2020, 532, 2000093.	2.4	1
46	Effective scheme for enhancing entanglement in distant optomechanical system by injecting the atomic medium. Canadian Journal of Physics, 2013, 91, 146-152.	1.1	0
47	Manipulation of Multiâ€Level Quantum Systems via Unsharp Measurements and Feedback Operations. Annalen Der Physik, 2019, 531, 1900063.	2.4	0
48	Generation of Three-Atom Singlet State with High-Fidelity by Lyapunov Control. International Journal of Theoretical Physics, 2021, 60, 1416-1424.	1.2	0