Yi-Hao Kang

List of Publications by Year
in descending order

47 papers	822 citations	516710 16 h-index	526287 27 g-index
48 all docs	48 docs citations	48 times ranked	241 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	Fast generation of W states of superconducting qubits with multiple SchrÃ¶dinger dynamics. Scientific Reports, 2016, 6, 36737.	3.3	43
4	Nonadiabatic geometric quantum computation with cat-state qubits via invariant-based reverse engineering. Physical Review Research, 2022, 4, .	3.6	43
5	Reverse engineering of a Hamiltonian by designing the evolution operators. Scientific Reports, 2016, 6, 30151.	3.3	42
6	Flexible scheme for the implementation of nonadiabatic geometric quantum computation. Physical Review A, 2020, 101, .	2.5	42
7	Robust and high-fidelity nondestructive Rydberg parity meter. Physical Review A, 2020, 102, .	2.5	39
8	Fast quantum state engineering via universal SU(2) transformation. Physical Review A, 2017, 96, .	2.5	34
9	Complete Bell-state analysis for superconducting-quantum-interference-device qubits with a transitionless tracking algorithm. Physical Review A, 2017, 96, .	2.5	34
10	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
11	Heralded atomic nonadiabatic holonomic quantum computation with Rydberg blockade. Physical Review A, 2020, 102, .	2.5	33
12	Quantum state transfer in spin chains via shortcuts to adiabaticity. Physical Review A, 2018, 97, .	2.5	30
13	Pulse design for multilevel systems by utilizing Lie transforms. Physical Review A, 2018, 97, .	2.5	27
14	Effective discrimination of chiral molecules in a cavity. Optics Letters, 2020, 45, 4952.	3.3	27
15	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
16	Optimized nonadiabatic holonomic quantum computation based on FÃ¶rster resonance in Rydberg atoms. Frontiers of Physics, 2022, 17, 1.	5.0	19
17	Complete polarized photons Bell-states and Greenbergerâ€"Horneâ€"Zeilinger-states analysis assisted by atoms. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2077.	2.1	16
18	Reverse engineering of a Hamiltonian for a three-level system via the Rodriguesâ€™ rotation formula. Laser Physics Letters, 2017, 14, 025201.	1.4	14

#	Article	IF	Citations
19	Fast and Robust Quantum Information Transfer in Annular and Radial Superconducting Networks. Annalen Der Physik, 2017, 529, 1700154.	2.4	14
20	Effective scheme for preparation of a spin-qubit Greenbergerâ€“Horneâ€“Zeilinger state and W state in a quantum-dot-microcavity system. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1323.	2.1	12
21	Shortcut Scheme for Oneâ€Step Implementation of a Threeâ€Qubit Nonadiabatic Holonomic Gate. Annalen Der Physik, 2018, 530, 1800179.	2.4	12
22	Two-photon phase gate with linear optical elements and atomâ€“cavity system. Quantum Information Processing, 2016, 15, 4521-4535.	2.2	10
23	Invariantâ€Based Pulse Design for Threeâ€Level Systems Without the Rotatingâ€Wave Approximation. Annalen Der Physik, 2017, 529, 1700004.	2.4	9
24	Shortcuts to adiabatic for implementing controlled-not gate with superconducting quantum interference device qubits. Quantum Information Processing, 2018, 17, 1.	2.2	9
25	Complete and Nondestructive Atomic Bellâ€State Analysis Assisted by Inverse Engineering. Annalen Der Physik, 2018, 530, 1800133.	2.4	9
26	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
27	Complete and Nondestructive Atomic Greenbergerâ€“Horneâ€“Zeilingerâ€State Analysis Assisted by Invariantâ€Based Inverse Engineering. Annalen Der Physik, 2019, 531, 1800447.	2.4	9
28	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
29	Rapid generation of a three-dimensional entangled state for two atoms trapped in a cavity via shortcuts to adiabatic passage. Quantum Information Processing, 2017, 16, 1.	2.2	8
30	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
31	Efficient error correction for N-particle polarized entangled states distribution over the collective-noise channel exploiting time entanglement. Applied Physics B: Lasers and Optics, 2014, 116, 977-984.	2.2	7
32	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
33	Effective Protocol for Generation of the Greenberger-Horne-Zeilinger State and Implementation of Controlled Phase Gate with Cross-Kerr Nonlinearity. International Journal of Theoretical Physics, 2014, 53, 17-27.	1.2	6
34	Quantum control with Lyapunov function and bang-bang solution in the optomechanics system. Frontiers of Physics, 2022, 17, 1.	5.0	6
35	Chiral Discrimination via Shortcuts to Adiabaticity and Optimal Control. Annalen Der Physik, 0, , 2100573.	2.4	6
36	Efficient spin Bell states and Greenbergerâ€“Horneâ€“Zeilinger states analysis in the quantum dotâ€“microcavity coupled system. Applied Physics B: Lasers and Optics, 2015, 119, 259-271.	2.2	5

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37	Accurate Parity Meter Based on Coherent State Measurement. Annalen Der Physik, 2022, 534, .	2.4	5
38	Efficient and flexible protocol for implementing two-qubit controlled phase gates with cross-Kerr nonlinearity. Journal of Modern Optics, 2014, 61, 175-181.	1.3	4
39	Efficient preparation of Greenbergerâ€"Horneâ€"Zeilinger state and W state of atoms with the help of the controlled phase flip gates in quantum nodes connected by collective-noise channels. Journal of Modern Optics, 2015, 62, 449-462.	1.3	4
40	Efficient implementation of complete and nondestructive Bell-state measurement for trapped ions with reverse engineering. Laser Physics Letters, 2020, 17, 125204.	1.4	4
41	Accelerating adiabatic quantum transfer for three-level<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si48.gif" display="inline" overflow="scroll"><mml:mi>Î›</mml:mi></mml:math>-type structure systems via picture transformation. Annals of Physics, 2017, 379, 102-111.	2.8	3
42	Unconventional Geometric Phase Gate of Transmon Qubits With Inverse Hamiltonian Engineering. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-7.	2.9	3
43	Effective scheme for generation of $$N$$ N -dimension atomic Greenbergerâ€"Horneâ€"Zeilinger states. Quantum Information Processing, 2014, 13, 1255-1265.	2.2	2
44	Effective protocol for preparation of three-atom Greenberger-Horne-Zeilinger state and W state with the help of cross-Kerr nonlinearity. Open Physics, 2013, 11, .	1.7	0
45	Effective preparation of the<i>N</i>-dimension spin Greenbergerâ€"Horneâ€"Zeilinger state with quantum dots embedded in microcavities. Journal of Modern Optics, 0, , 1-10.	1.3	0
46	Entanglement Creations and Quantum Gate Implementations of Spin Qubits With Lyapunov Control. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-7.	2.9	0
47	Generation of Three-Atom Singlet State with High-Fidelity by Lyapunov Control. International Journal of Theoretical Physics, 2021, 60, 1416-1424.	1.2	0