Yi-Hao Kang

List of Publications by Year
in descending order

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Version: 2024-02-01

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	Optimized nonadiabatic holonomic quantum computation based on FÃ¶rster resonance in Rydberg atoms. Frontiers of Physics, 2022, 17, 1.	5.0	19
2	Quantum control with Lyapunov function and bang-bang solution in the optomechanics system. Frontiers of Physics, 2022, 17, 1.	5.0	6
3	Nonadiabatic geometric quantum computation with cat-state qubits via invariant-based reverse engineering. Physical Review Research, 2022, 4, .	3.6	43
4	Accurate Parity Meter Based on Coherent State Measurement. Annalen Der Physik, 2022, 534, .	2.4	5
5	Generation of Three-Atom Singlet State with High-Fidelity by Lyapunov Control. International Journal of Theoretical Physics, 2021, 60, 1416-1424.	1.2	0
6	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
7	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
8	Robust and high-fidelity nondestructive Rydberg parity meter. Physical Review A, 2020, 102, .	2.5	39
9	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
10	Heralded atomic nonadiabatic holonomic quantum computation with Rydberg blockade. Physical Review A, 2020, 102, .	2.5	33
11	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
12	Flexible scheme for the implementation of nonadiabatic geometric quantum computation. Physical Review A, 2020, 101, .	2.5	42
13	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
14	Efficient implementation of complete and nondestructive Bell-state measurement for trapped ions with reverse engineering. Laser Physics Letters, 2020, 17, 125204.	1.4	4
15	Effective discrimination of chiral molecules in a cavity. Optics Letters, 2020, 45, 4952.	3.3	27
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Complete and Nondestructive Atomic Greenbergerâ€“Horneâ€“Zeilingerâ€State Analysis Assisted by Invariantâ€Based Inverse Engineering. Annalen Der Physik, 2019, 531, 1800447.	2.4	9
20	Nonadiabatic holonomic quantum computation using Rydberg blockade. Physical Review A, 2018, 97, .	2.5	63
21	Quantum state transfer in spin chains via shortcuts to adiabaticity. Physical Review A, 2018, 97, .	2.5	30
22	Pulse design for multilevel systems by utilizing Lie transforms. Physical Review A, 2018, 97, .	2.5	27
23	Shortcut Scheme for Oneâ€Step Implementation of a Threeâ€Qubit Nonadiabatic Holonomic Gate. Annalen Der Physik, 2018, 530, 1800179.	2.4	12
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	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
27	Reverse engineering of a Hamiltonian for a three-level system via the Rodriguesâ€™ rotation formula. Laser Physics Letters, 2017, 14, 025201.	1.4	14
28	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
29	Invariantâ€Based Pulse Design for Threeâ€Level Systems Without the Rotatingâ€Wave Approximation. Annalen Der Physik, 2017, 529, 1700004.	2.4	9
30	Fast and Robust Quantum Information Transfer in Annular and Radial Superconducting Networks. Annalen Der Physik, 2017, 529, 1700154.	2.4	14
31	Fast quantum state engineering via universal SU(2) transformation. Physical Review A, 2017, 96, .	2.5	34
32	Complete Bell-state analysis for superconducting-quantum-interference-device qubits with a transitionless tracking algorithm. Physical Review A, 2017, 96, .	2.5	34
33	Reverse engineering of a Hamiltonian by designing the evolution operators. Scientific Reports, 2016, 6, 30151.	3.3	42
34	Two-photon phase gate with linear optical elements and atomâ€“cavity system. Quantum Information Processing, 2016, 15, 4521-4535.	2.2	10
35	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
36	Fast generation of W states of superconducting qubits with multiple SchrÃ¶dinger dynamics. Scientific Reports, 2016, 6, 36737.	3.3	43

#	Article	IF	Citations
37	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
38	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
39	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
40	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
41	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
42	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
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	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
45	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
46	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
47	Chiral Discrimination via Shortcuts to Adiabaticity and Optimal Control. Annalen Der Physik, 0, , 2100573.	2.4	6