

H Z Shen

List of Publications by Year in descending order

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77
papers

1,311
citations

331259

21
h-index

395343

33
g-index

77
all docs

77
docs citations

77
times ranked

535
citing authors

#	ARTICLE	IF	CITATIONS
1	Unconventional photon blockade with second-order nonlinearity. Physical Review A, 2015, 92, .	1.0	108
2	Tunable photon blockade in coupled semiconductor cavities. Physical Review A, 2015, 91, .	1.0	88
3	Quantum optical diode with semiconductor microcavities. Physical Review A, 2014, 90, .	1.0	84
4	Applications of the modified Rydberg antiblockade regime with simultaneous driving. Physical Review A, 2017, 96, .	1.0	74
5	One-step construction of the multiple-qubit Rydberg controlled-phase gate. Physical Review A, 2018, 98, .	1.0	73
6	Nearly deterministic preparation of the perfect W state with weak cross-Kerr nonlinearities. Physical Review A, 2016, 93, .	1.0	60
7	Exact optimal control of photon blockade with weakly nonlinear coupled cavities. Optics Express, 2015, 23, 32835.	1.7	43
8	Nonreciprocal unconventional photon blockade in a driven dissipative cavity with parametric amplification. Physical Review A, 2020, 101, .	1.0	43
9	Unconventional single-photon blockade in non-Markovian systems. Physical Review A, 2018, 98, .	1.0	37
10	Strong photon antibunching with weak second-order nonlinearity under dissipation and coherent driving. Optics Express, 2016, 24, 17332.	1.7	34
11	Zero eigenvalues of a photon blockade induced by a non-Hermitian Hamiltonian with a gain cavity. Physical Review A, 2018, 97, .	1.0	34
12	Single-photon storing in coupled non-Markovian atom-cavity system. Physical Review A, 2013, 88, .	1.0	28
13	Exact non-Markovian master equation for a driven damped two-level system. Physical Review A, 2014, 89, .	1.0	26
14	Nonreciprocal conventional photon blockade in driven dissipative atom-cavity. Optics Letters, 2020, 45, 4424.	1.7	26
15	Construction scheme of a two-photon polarization controlled arbitrary phase gate mediated by weak cross-phase modulation. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 589.	0.9	23
16	Conventional photon blockade with a three-wave mixing. Physical Review A, 2020, 102, .	1.0	23
17	General response formula and application to topological insulator in quantum open system. Physical Review E, 2015, 92, 052122.	0.8	22
18	Hall conductance and topological invariant for open systems. Scientific Reports, 2015, 4, 6455.	1.6	22

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19	Quantum phase transition in a coupled two-level system embedded in anisotropic three-dimensional photonic crystals. <i>Physical Review E</i> , 2016, 93, 012107.	0.8	22
20	Exact non-Markovian dynamics of qubits coupled to two interacting environments. <i>Physical Review A</i> , 2017, 96, .	1.0	22
21	Unconventional photon blockade from bimodal driving and dissipations in coupled semiconductor microcavities. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 035503.	0.6	22
22	Single logical qubit information encoding scheme with the minimal optical decoherence-free subsystem. <i>Optics Letters</i> , 2016, 41, 1030.	1.7	21
23	Effects of system-bath coupling on a photosynthetic heat engine: A polaron master-equation approach. <i>Physical Review A</i> , 2017, 96, .	1.0	21
24	Non-Markovian linear response theory for quantum open systems and its applications. <i>Physical Review E</i> , 2017, 95, 012156.	0.8	20
25	Non-Markovian dynamics of a system of two-level atoms coupled to a structured environment. <i>Physical Review A</i> , 2019, 99, .	1.0	20
26	Nearly deterministic Fredkin gate based on weak cross-Kerr nonlinearities. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 253.	0.9	18
27	Quantum Fourier transform of polarization photons mediated by weak cross-Kerr nonlinearity. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2765.	0.9	17
28	Non-Markovian quantum Brownian motion in one dimension in electric fields. <i>Physical Review A</i> , 2018, 97, .	1.0	16
29	Second-order nonlinearity induced transparency. <i>Optics Letters</i> , 2017, 42, 1289.	1.7	16
30	Controllable dissipation of a qubit coupled to an engineering reservoir. <i>Physical Review A</i> , 2018, 98, .	1.0	15
31	Shortcuts to adiabaticity in non-Hermitian quantum systems without rotating-wave approximation. <i>Optics Express</i> , 2017, 25, 30135.	1.7	14
32	Simulating Anisotropic quantum Rabi model via frequency modulation. <i>Scientific Reports</i> , 2019, 9, 4569.	1.6	14
33	Deterministic transmission of an arbitrary single-photon polarization state through bit-flip error channel. <i>Quantum Information Processing</i> , 2014, 13, 1413-1424.	1.0	13
34	Distributing a multi-photon polarization-entangled state with unitary fidelity via arbitrary collective noise channels. <i>Quantum Information Processing</i> , 2015, 14, 361-372.	1.0	11
35	Response of two-band systems to a single-mode quantized field. <i>Physical Review E</i> , 2016, 93, 032120.	0.8	11
36	Perfect distribution of four-photon entangled states over an arbitrary collective noise channel by spatial degree of freedom. <i>Optics Communications</i> , 2013, 308, 304-308.	1.0	10

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37	Readout of the spectral density of an environment from the dynamics of an open system. <i>Physical Review A</i> , 2019, 100, .	1.0	10
38	A multi-pathway model for photosynthetic reaction center. <i>Journal of Chemical Physics</i> , 2016, 144, 125103.	1.2	10
39	Unconventional photon blockade in weakly nonlinear photonic molecules with bilateral drive. <i>Journal of Modern Optics</i> , 2017, 64, 583-590.	0.6	9
40	Nonreciprocity in a strongly coupled three-mode optomechanical circulatory system. <i>Optics Express</i> , 2019, 27, 25882.	1.7	9
41	Preparing, linking, and unlinking cluster-type polarization-entangled states by integrating modules. <i>Progress of Theoretical and Experimental Physics</i> , 2013, 2013, .	1.8	8
42	Controlled state transfer in a Heisenberg spin chain by periodic drives. <i>Scientific Reports</i> , 2018, 8, 13565.	1.6	8
43	Linear response theory for periodically driven systems with non-Markovian effects. <i>Optics Letters</i> , 2018, 43, 2852.	1.7	8
44	Mechanism for Hall conductance of two-band systems against decoherence. <i>Physical Review E</i> , 2017, 95, 042129.	0.8	7
45	Shortcuts to adiabaticity with general two-level non-Hermitian systems. <i>Physical Review A</i> , 2022, 105, .	1.0	7
46	Atom-molecule-conversion system subject to phase noises. <i>Physical Review A</i> , 2013, 87, .	1.0	6
47	Dynamics and quantumness of excitation energy transfer through a complex quantum network. <i>Physical Review E</i> , 2014, 90, 042140.	0.8	6
48	Tunable three-wave-mixing-induced transparency. <i>Physical Review A</i> , 2017, 96, .	1.0	6
49	Exceptional points and dynamics of a non-Hermitian two-level system without PT symmetry. <i>Europhysics Letters</i> , 2020, 131, 34001.	0.7	6
50	Nonreciprocal unconventional photon blockade with spinning atom-cavity. <i>Europhysics Letters</i> , 2021, 134, 64003.	0.7	6
51	Tunable non-Markovian dynamics with a three-level atom mediated by the classical laser in a semi-infinite photonic waveguide. <i>Physical Review A</i> , 2022, 105, .	1.0	6
52	Single-photon transistor based on tunable coupling in a cavity quantum electrodynamics system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 1600.	0.9	4
53	Effect of spin relaxations on the spin mixing conductances for a bilayer structure. <i>Scientific Reports</i> , 2018, 8, 1475.	1.6	4
54	Bound state and localization of excitation in many-body open systems. <i>Physical Review A</i> , 2018, 97, .	1.0	4

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55	System susceptibility and bound-states in structured reservoirs. <i>Optics Express</i> , 2019, 27, 31504.	1.7	4
56	Controllable scattering of a single photon inside a one-dimensional coupled resonator waveguide with second-order nonlinearity. <i>Optics Express</i> , 2020, 28, 1249.	1.7	4
57	Dispersive readout with non-Markovian environments. <i>Physical Review A</i> , 2022, 105, .	1.0	4
58	Second-order Nonlinearity Induced Unconventional Photon Blockade. <i>International Journal of Theoretical Physics</i> , 2019, 58, 472-479.	0.5	3
59	Current in an open tight-binding system. <i>Physical Review A</i> , 2019, 99, .	1.0	3
60	Atom-modulated dynamic optical hysteresis in driven-dissipative systems. <i>Physical Review A</i> , 2021, 104, .	1.0	3
61	Quantum secure direct communication against the collective noise with polarization-entangled Bell states. <i>Progress of Theoretical and Experimental Physics</i> , 2015, 2015, 123A02.	1.8	2
62	Hall conductance for open two-band system beyond rotating-wave approximation. <i>Scientific Reports</i> , 2017, 7, 16243.	1.6	2
63	Demultiplexing of photonic temporal modes by a linear system. <i>Physical Review A</i> , 2018, 97, .	1.0	2
64	Edge state, bound state, and anomalous dynamics in the Aubry-Andr�-Harper system coupled to non-Markovian baths. <i>Physical Review A</i> , 2020, 102, .	1.0	2
65	Dynamical signature of the edge state in the 1D Aubry-Andr� model. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 085501.	0.6	1
66	Adiabatic Evolution of an Open Quantum System in its Instantaneous Steady State. <i>International Journal of Theoretical Physics</i> , 2017, 56, 3562-3571.	0.5	1
67	Master equation for open two-band systems and its applications to Hall conductance. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 065302.	0.7	1
68	Optically tunable spin texture of the surface state for Bi ₂ Se ₃ and SmB ₆ topological insulators. <i>Optics Express</i> , 2018, 26, 18906.	1.7	1
69	Thermal transport of Josephson junction based on two-dimensional electron gas. <i>Scientific Reports</i> , 2019, 9, 2187.	1.6	1
70	Linear multi-photon storage based on dark modes with frequency tuning. <i>New Journal of Physics</i> , 2021, 23, 073027.	1.2	1
71	Two-Photon Blockade with Second-Order Nonlinearity in Cavity Systems. <i>International Journal of Theoretical Physics</i> , 2022, 61, 1.	0.5	1
72	Unconventional Photon Blockade Based on Two-Photon Tunneling. <i>International Journal of Theoretical Physics</i> , 2017, 56, 2935-2943.	0.5	0

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73	Optical-assisted Photon Blockade in a Cavity System via Parametric Interactions. International Journal of Theoretical Physics, 2019, 58, 3640-3650.	0.5	0
74	Quantum Optical Switching Based on Local Single-excitation Resonance. International Journal of Theoretical Physics, 2020, 59, 2606-2616.	0.5	0
75	Effective decoherence of realistic clocks: General theory and application to a topological insulator. Physical Review A, 2021, 103, .	1.0	0
76	Open dynamics in the Aubry-Andr�-Harper model coupled to a finite bath: The influence of localization in the system and dimensionality of bath. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 421, 127778.	0.9	0
77	Robust lattice manipulation beyond nearest-neighbor coupling by pulsed electric field. Physical Review B, 2022, 105, .	1.1	0