

# H Z Shen

## List of Publications by Year in descending order

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77  
papers

1,311  
citations

331538

21  
h-index

395590

33  
g-index

77  
all docs

77  
docs citations

77  
times ranked

535  
citing authors

#	ARTICLE	IF	CITATIONS
1	Open dynamics in the Aubry-Andr�-Harper model coupled to a finite bath: The influence of localization in the system and dimensionality of bath. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 421, 127778.	0.9	0
2	Robust lattice manipulation beyond nearest-neighbor coupling by pulsed electric field. <i>Physical Review B</i> , 2022, 105, .	1.1	0
3	Shortcuts to adiabaticity with general two-level non-Hermitian systems. <i>Physical Review A</i> , 2022, 105, .	1.0	7
4	Dispersive readout with non-Markovian environments. <i>Physical Review A</i> , 2022, 105, .	1.0	4
5	Two-Photon Blockade with Second-Order Nonlinearity in Cavity Systems. <i>International Journal of Theoretical Physics</i> , 2022, 61, 1.	0.5	1
6	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
7	Effective decoherence of realistic clocks: General theory and application to a topological insulator. <i>Physical Review A</i> , 2021, 103, .	1.0	0
8	Nonreciprocal unconventional photon blockade with spinning atom-cavity. <i>Europhysics Letters</i> , 2021, 134, 64003.	0.7	6
9	Atom-modulated dynamic optical hysteresis in driven-dissipative systems. <i>Physical Review A</i> , 2021, 104, .	1.0	3
10	Linear multi-photon storage based on dark modes with frequency tuning. <i>New Journal of Physics</i> , 2021, 23, 073027.	1.2	1
11	Quantum Optical Switching Based on Local Single-excitation Resonance. <i>International Journal of Theoretical Physics</i> , 2020, 59, 2606-2616.	0.5	0
12	Exceptional points and dynamics of a non-Hermitian two-level system without PT symmetry. <i>Europhysics Letters</i> , 2020, 131, 34001.	0.7	6
13	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
14	Conventional photon blockade with a three-wave mixing. <i>Physical Review A</i> , 2020, 102, .	1.0	23
15	Nonreciprocal unconventional photon blockade in a driven dissipative cavity with parametric amplification. <i>Physical Review A</i> , 2020, 101, .	1.0	43
16	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
17	Nonreciprocal conventional photon blockade in driven dissipative atom-cavity. <i>Optics Letters</i> , 2020, 45, 4424.	1.7	26
18	Optical-assisted Photon Blockade in a Cavity System via Parametric Interactions. <i>International Journal of Theoretical Physics</i> , 2019, 58, 3640-3650.	0.5	0

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19	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
20	Nonreciprocity in a strongly coupled three-mode optomechanical circulatory system. <i>Optics Express</i> , 2019, 27, 25882.	1.7	9
21	Simulating Anisotropic quantum Rabi model via frequency modulation. <i>Scientific Reports</i> , 2019, 9, 4569.	1.6	14
22	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
23	Thermal transport of Josephson junction based on two-dimensional electron gas. <i>Scientific Reports</i> , 2019, 9, 2187.	1.6	1
24	Second-order Nonlinearity Induced Unconventional Photon Blockade. <i>International Journal of Theoretical Physics</i> , 2019, 58, 472-479.	0.5	3
25	Current in an open tight-binding system. <i>Physical Review A</i> , 2019, 99, .	1.0	3
26	System susceptibility and bound-states in structured reservoirs. <i>Optics Express</i> , 2019, 27, 31504.	1.7	4
27	Non-Markovian quantum Brownian motion in one dimension in electric fields. <i>Physical Review A</i> , 2018, 97, .	1.0	16
28	Zero eigenvalues of a photon blockade induced by a non-Hermitian Hamiltonian with a gain cavity. <i>Physical Review A</i> , 2018, 97, .	1.0	34
29	Effect of spin relaxations on the spin mixing conductances for a bilayer structure. <i>Scientific Reports</i> , 2018, 8, 1475.	1.6	4
30	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
31	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
32	Bound state and localization of excitation in many-body open systems. <i>Physical Review A</i> , 2018, 97, .	1.0	4
33	Demultiplexing of photonic temporal modes by a linear system. <i>Physical Review A</i> , 2018, 97, .	1.0	2
34	Controllable dissipation of a qubit coupled to an engineering reservoir. <i>Physical Review A</i> , 2018, 98, .	1.0	15
35	One-step construction of the multiple-qubit Rydberg controlled-phase gate. <i>Physical Review A</i> , 2018, 98, .	1.0	73
36	Controlled state transfer in a Heisenberg spin chain by periodic drives. <i>Scientific Reports</i> , 2018, 8, 13565.	1.6	8

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37	Unconventional single-photon blockade in non-Markovian systems. <i>Physical Review A</i> , 2018, 98, .	1.0	37
38	Optically tunable spin texture of the surface state for Bi <sub>2</sub> Se <sub>3</sub> and SmB <sub>6</sub> topological insulators. <i>Optics Express</i> , 2018, 26, 18906.	1.7	1
39	Linear response theory for periodically driven systems with non-Markovian effects. <i>Optics Letters</i> , 2018, 43, 2852.	1.7	8
40	Non-Markovian linear response theory for quantum open systems and its applications. <i>Physical Review E</i> , 2017, 95, 012156.	0.8	20
41	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
42	Exact non-Markovian dynamics of qubits coupled to two interacting environments. <i>Physical Review A</i> , 2017, 96, .	1.0	22
43	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
44	Unconventional Photon Blockade Based on Two-Photon Tunneling. <i>International Journal of Theoretical Physics</i> , 2017, 56, 2935-2943.	0.5	0
45	Tunable three-wave-mixing-induced transparency. <i>Physical Review A</i> , 2017, 96, .	1.0	6
46	Applications of the modified Rydberg antiblockade regime with simultaneous driving. <i>Physical Review A</i> , 2017, 96, .	1.0	74
47	Mechanism for Hall conductance of two-band systems against decoherence. <i>Physical Review E</i> , 2017, 95, 042129.	0.8	7
48	Unconventional photon blockade in weakly nonlinear photonic molecules with bilateral drive. <i>Journal of Modern Optics</i> , 2017, 64, 583-590.	0.6	9
49	Hall conductance for open two-band system beyond rotating-wave approximation. <i>Scientific Reports</i> , 2017, 7, 16243.	1.6	2
50	Shortcuts to adiabaticity in non-Hermitian quantum systems without rotating-wave approximation. <i>Optics Express</i> , 2017, 25, 30135.	1.7	14
51	Second-order nonlinearity induced transparency. <i>Optics Letters</i> , 2017, 42, 1289.	1.7	16
52	Strong photon antibunching with weak second-order nonlinearity under dissipation and coherent driving. <i>Optics Express</i> , 2016, 24, 17332.	1.7	34
53	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
54	Nearly deterministic preparation of the perfect $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mi}>W\langle \text{mml:mi}>\langle \text{mml:math}>\text{state with weak cross-Kerr nonlinearities. } \text{Physical Review A}$ , 2016, 93, .	1.0	60

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55	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
56	Response of two-band systems to a single-mode quantized field. <i>Physical Review E</i> , 2016, 93, 032120.	0.8	11
57	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
58	Single logical qubit information encoding scheme with the minimal optical decoherence-free subsystem. <i>Optics Letters</i> , 2016, 41, 1030.	1.7	21
59	A multi-pathway model for photosynthetic reaction center. <i>Journal of Chemical Physics</i> , 2016, 144, 125103.	1.2	10
60	Tunable photon blockade in coupled semiconductor cavities. <i>Physical Review A</i> , 2015, 91, .	1.0	88
61	Unconventional photon blockade with second-order nonlinearity. <i>Physical Review A</i> , 2015, 92, .	1.0	108
62	General response formula and application to topological insulator in quantum open system. <i>Physical Review E</i> , 2015, 92, 052122.	0.8	22
63	Hall conductance and topological invariant for open systems. <i>Scientific Reports</i> , 2015, 4, 6455.	1.6	22
64	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
65	Exact optimal control of photon blockade with weakly nonlinear coupled cavities. <i>Optics Express</i> , 2015, 23, 32835.	1.7	43
66	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
67	Dynamics and quantumness of excitation energy transfer through a complex quantum network. <i>Physical Review E</i> , 2014, 90, 042140.	0.8	6
68	Quantum optical diode with semiconductor microcavities. <i>Physical Review A</i> , 2014, 90, .	1.0	84
69	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
70	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
71	Exact non-Markovian master equation for a driven damped two-level system. <i>Physical Review A</i> , 2014, 89, .	1.0	26
72	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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73	Single-photon storing in coupled non-Markovian atom-cavity system. Physical Review A, 2013, 88, .	1.0	28
74	Quantum Fourier transform of polarization photons mediated by weak cross-Kerr nonlinearity. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2765.	0.9	17
75	Atom-molecule-conversion system subject to phase noises. Physical Review A, 2013, 87, .	1.0	6
76	Preparing, linking, and unlinking cluster-type polarization-entangled states by integrating modules. Progress of Theoretical and Experimental Physics, 2013, 2013, .	1.8	8
77	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