

Zhi Song

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

154
papers

3,193
citations

26
h-index

51
g-index

180
ext. papers

3,909
ext. citations

2.9
avg, IF

6.03
L-index

#	Paper	IF	Citations
154	Quantum Phase Transition in a Quantum Ising Chain at Nonzero Temperatures. <i>Physical Review Letters</i> , 2021 , 126, 116401	7.4	1
153	Quantum mold casting for topological insulating and edge states. <i>Physical Review B</i> , 2021 , 103,	3.3	1
152	Topology of an anti-parity-time symmetric non-Hermitian Su-Schrieffer-Heeger model. <i>Physical Review B</i> , 2021 , 103,	3.3	8
151	Pairing ground states in the non-Hermitian Hubbard model. <i>Physical Review B</i> , 2021 , 103,	3.3	1
150	Topological Knots in Quantum Spin Systems. <i>Chinese Physics Letters</i> , 2021 , 38, 060302	1.8	1
149	Hyperprogressive disease in patients receiving immune checkpoint inhibitors. <i>Current Problems in Cancer</i> , 2021 , 45, 100688	2.3	2
148	Hadron-quark mixed phase in the quark-meson coupling model. <i>Physical Review C</i> , 2021 , 103,	2.7	4
147	Symmetry-Protected Scattering in Non-Hermitian Linear Systems. <i>Chinese Physics Letters</i> , 2021 , 38, 024208		14
146	Effect of the symmetry energy on the secondary component of GW190814 as a neutron star. <i>Physical Review C</i> , 2021 , 104,	2.7	3
145	Anderson localization induced by complex potential. <i>Journal of Physics Communications</i> , 2021 , 5, 095011	1.2	0
144	Neutron drop trapped in axially deformed external fields. <i>Nuclear Physics A</i> , 2021 , 1014, 122237	1.3	
143	Dynamic magnetization in non-Hermitian quantum spin systems. <i>Physical Review B</i> , 2020 , 101,	3.3	5
142	Effects of symmetry energy on the radius and tidal deformability of neutron stars in the relativistic mean-field model. <i>Progress of Theoretical and Experimental Physics</i> , 2020 , 2020,	5.4	8
141	Ising chain with topological degeneracy induced by dissipation. <i>Physical Review B</i> , 2020 , 101,	3.3	3
140	High-order exceptional points in supersymmetric arrays. <i>Physical Review A</i> , 2020 , 101,	2.6	15
139	Coherent confinement and unidirectional dynamics of a wave packet induced by a non-Hermitian Su-Schrieffer-Heeger segment. <i>Physical Review A</i> , 2020 , 101,	2.6	1
138	Hybrid exceptional point created from type-III Dirac point. <i>Physical Review B</i> , 2020 , 101,	3.3	17

137	Dynamical preparation of a steady off-diagonal long-range order state in the Hubbard model with a local non-Hermitian impurity. <i>Physical Review B</i> , 2020 , 102,	3.3	1
136	Effects of Symmetry Energy on the Equation of State for Simulations of Core-collapse Supernovae and Neutron-star Mergers. <i>Astrophysical Journal</i> , 2020 , 891, 148	4.7	25
135	Visualizing one-dimensional non-hermitian topological phases. <i>Journal of Physics Communications</i> , 2020 , 4, 095005	1.2	4
134	Untying links through anti-parity-time-symmetric coupling. <i>Physical Review B</i> , 2020 , 102,	3.3	13
133	Nontrivial topological phase with a zero Chern number. <i>Physical Review B</i> , 2020 , 102,	3.3	1
132	Systematic study on the quark-hadron mixed phase in compact stars. <i>Physical Review D</i> , 2020 , 102,	4.9	6
131	Nuclear pasta in hot and dense matter and its influence on the equation of state for astrophysical simulations. <i>Physical Review C</i> , 2020 , 102,	2.7	2
130	Resonant generation of a p-wave Cooper pair in a non-Hermitian Kitaev chain at the exceptional point. <i>Physical Review A</i> , 2020 , 102,	2.6	1
129	Coalescing Majorana edge modes in non-Hermitian [Formula: see text]-symmetric Kitaev chain. <i>Scientific Reports</i> , 2020 , 10, 6807	4.9	1
128	Quark matter symmetry energy effect on equation of state for neutron stars 2019 ,		3
127	Phase transition in phase transition lines of quantum XY model. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 245401	1.8	2
126	Helical resonant transport and purified amplification at an exceptional point. <i>Physical Review B</i> , 2019 , 100,	3.3	6
125	Bulk-boundary correspondence in a non-Hermitian system in one dimension with chiral inversion symmetry. <i>Physical Review B</i> , 2019 , 99,	3.3	174
124	Non-Hermitian phase transition and eigenstate localization induced by asymmetric coupling. <i>Physical Review A</i> , 2019 , 99,	2.6	10
123	Symmetry protected topological phases characterized by isolated exceptional points. <i>Physical Review B</i> , 2019 , 99,	3.3	32
122	Quark mean-field model for nuclear matter with or without bag. <i>Physical Review C</i> , 2019 , 99,	2.7	10
121	Classical correspondence of the exceptional points in the finite non-Hermitian system. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019 , 52, 165302	2	0
120	Exceptional-point-induced lasing dynamics in a non-Hermitian Su-Schrieffer-Heeger model. <i>Physical Review A</i> , 2019 , 99,	2.6	8

119	Majorana flat band edge modes of topological gapless phase in 2D Kitaev square lattice. <i>Scientific Reports</i> , 2019 , 9, 4978	4.9	4
118	Topological phase transition independent of system non-Hermiticity. <i>Physical Review B</i> , 2019 , 100,	3.3	30
117	Quantum transport in non-Hermitian impurity arrays. <i>Physical Review B</i> , 2019 , 100,	3.3	7
116	Inversion symmetric non-Hermitian Chern insulator. <i>Physical Review B</i> , 2019 , 100,	3.3	17
115	Effects of nuclear symmetry energy and equation of state on neutron star properties. <i>Physical Review C</i> , 2019 , 100,	2.7	17
114	Robustness of the pumping charge to dynamic disorder. <i>Physical Review B</i> , 2019 , 100,	3.3	2
113	Partial topological Zak phase and dynamical confinement in a non-Hermitian bipartite system. <i>Physical Review A</i> , 2019 , 99,	2.6	16
112	Topological phases in a Kitaev chain with imbalanced pairing. <i>Physical Review B</i> , 2018 , 97,	3.3	44
111	Dynamical bulk-edge correspondence for degeneracy lines in parameter space. <i>Physical Review B</i> , 2018 , 98,	3.3	4
110	Dynamical signature of the moiré pattern in a non-Hermitian ladder. <i>Physical Review B</i> , 2018 , 98,	3.3	6
109	Incident Direction Independent Wave Propagation and Unidirectional Lasing. <i>Physical Review Letters</i> , 2018 , 121, 073901	7.4	53
108	Simple harmonic oscillation in a non-Hermitian Su-Schrieffer-Heeger chain at the exceptional point. <i>Physical Review A</i> , 2018 , 98,	2.6	7
107	Effects of quark-matter symmetry energy on hadron-quark coexistence in neutron-star matter. <i>Physical Review C</i> , 2018 , 98,	2.7	10
106	Dynamical topological invariant for the non-Hermitian Rice-Mele model. <i>Physical Review A</i> , 2018 , 98,	2.6	17
105	Maximal distant entanglement in Kitaev tube. <i>Scientific Reports</i> , 2018 , 8, 12202	4.9	1
104	Parallel dynamics between non-Hermitian and Hermitian systems. <i>Physical Review A</i> , 2018 , 97,	2.6	1
103	One-way light transport controlled by synthetic magnetic fluxes and $\{\mathscr{P}\}\{\mathscr{T}\}$ -symmetric resonators. <i>New Journal of Physics</i> , 2017 , 19, 015010	2.9	15
102	Non-Hermitian interferometer: Unidirectional amplification without distortion. <i>Physical Review A</i> , 2017 , 95,	2.6	14

101	Su-Schrieffer-Heeger chain with one pair of [Formula: see text]-symmetric defects. <i>Scientific Reports</i> , 2017 , 7, 5903	4.9	38
100	Majorana charges, winding numbers and Chern numbers in quantum Ising models. <i>Scientific Reports</i> , 2017 , 7, 8176	4.9	14
99	Topological nodal points in two coupled Su-Schrieffer-Heeger chains. <i>Physical Review B</i> , 2017 , 96,	3.3	23
98	Spectral singularity in composite systems and simulation of a resonant lasing cavity. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017 , 50, 405302	2	1
97	Wide-range-tunable Dirac-cone band structure in a chiral-time-symmetric non-Hermitian system. <i>Physical Review A</i> , 2017 , 96,	2.6	9
96	Single-Hypernuclei within a quark mean-field model. <i>Physical Review C</i> , 2017 , 96,	2.7	5
95	Non-Hermitian description of the dynamics of interchain pair tunneling. <i>Physical Review A</i> , 2017 , 95,	2.6	4
94	Topological gapless phase in Kitaev model on square lattice. <i>Scientific Reports</i> , 2017 , 7, 17179	4.9	5
93	Reciprocal and unidirectional scattering of parity-time symmetric structures. <i>Scientific Reports</i> , 2016 , 6, 20976	4.9	26
92	The properties of nuclear matter with lattice NN potential in relativistic Brueckner-Hartree-Fock theory. <i>Scientific Reports</i> , 2016 , 6, 35590	4.9	1
91	Parity-time symmetry under magnetic flux. <i>Physical Review A</i> , 2016 , 93,	2.6	9
90	Chern number in Ising models with spatially modulated real and complex fields. <i>Physical Review A</i> , 2016 , 94,	2.6	8
89	Unidirectional perfect absorber. <i>Scientific Reports</i> , 2016 , 6, 32919	4.9	13
88	Magnetic-flux-driven topological quantum phase transition and manipulation of perfect edge states in graphene tube. <i>Scientific Reports</i> , 2016 , 6, 31953	4.9	5
87	Non-Hermitian heat engine with all-quantum-adiabatic-process cycle. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016 , 49, 475301	2	6
86	Long-range entangled zero-mode state in a non-Hermitian lattice. <i>Physical Review A</i> , 2016 , 94,	2.6	12
85	EPR pairing dynamics in Hubbard model with resonant U. <i>Scientific Reports</i> , 2016 , 6, 18323	4.9	2
84	Quench field sensitivity of two-particle correlation in a Hubbard model. <i>Scientific Reports</i> , 2016 , 6, 27189	4.9	0

83	Stimulated photon emission and two-photon Raman scattering in a coupled-cavity QED system. <i>Scientific Reports</i> , 2016 , 6, 20991	4.9	4
82	Net primary productivity (NPP) dynamics and associated urbanization driving forces in metropolitan areas: a case study in Beijing City, China. <i>Landscape Ecology</i> , 2016 , 31, 1077-1092	4.3	74
81	Phase transition in hot hypernuclei within the relativistic Thomas-Fermi approximation. <i>Physical Review C</i> , 2016 , 94,	2.7	3
80	Wave emission and absorption at spectral singularities. <i>Physical Review A</i> , 2016 , 94,	2.6	16
79	Quantum phase transition induced by real-space topology. <i>Scientific Reports</i> , 2016 , 6, 39416	4.9	2
78	Quantum-state transfer between atom and macroscopically distinguishable cavity field in Jaynes-Cummings model. <i>International Journal of Quantum Information</i> , 2015 , 13, 1550001	0.8	
77	Asymmetric transmission through a flux-controlled non-Hermitian scattering center. <i>Physical Review A</i> , 2015 , 91,	2.6	28
76	Transmission phase lapse in the non-Hermitian Aharonov-Bohm interferometer near the spectral singularity. <i>Physical Review A</i> , 2015 , 91,	2.6	10
75	Generation of Bell, W, and Greenberger-Horne-Zeilinger states via exceptional points in non-Hermitian quantum spin systems. <i>Physical Review A</i> , 2015 , 91,	2.6	10
74	Finite-temperature quantum criticality in a complex-parameter plane. <i>Physical Review A</i> , 2015 , 92,	2.6	6
73	Topological Characterization of Extended Quantum Ising Models. <i>Physical Review Letters</i> , 2015 , 115, 177204	7.4	54
72	Amplitude control of a quantum state in a non-Hermitian Rice-Mele model driven by an external field. <i>Physical Review A</i> , 2015 , 92,	2.6	5
71	Equivalent spin-orbit interaction in the two-polariton Jaynes-Cummings-Hubbard model. <i>Scientific Reports</i> , 2015 , 5, 11945	4.9	2
70	Amplitude modulated Bloch oscillations of photon probability distribution in a cavity-atom system. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 075402	1.3	1
69	Complete particle-pair annihilation as a dynamical signature of the spectral singularity. <i>Annals of Physics</i> , 2014 , 349, 288-296	2.5	11
68	An impurity-induced gap system as a quantum data bus for quantum state transfer. <i>Annals of Physics</i> , 2014 , 348, 278-288	2.5	5
67	Sudden death of particle-pair Bloch oscillation and unidirectional propagation in a one-dimensional driven optical lattice. <i>Physical Review A</i> , 2014 , 90,	2.6	8
66	SU(2) symmetry in a Hubbard model with spin-orbit coupling. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014 , 57, 2086-2091	3.6	

65	Conventional quantum phase transition driven by a complex parameter in a non-Hermitian PT-symmetric Ising model. <i>Physical Review A</i> , 2014 , 90,	2.6	15
64	Dynamics of one-dimensional tight-binding models with arbitrary time-dependent external homogeneous fields. <i>Quantum Information Processing</i> , 2013 , 12, 3569-3585	1.6	9
63	Soil moisture retrieving using hyperspectral data with the application of wavelet analysis. <i>Environmental Earth Sciences</i> , 2013 , 69, 279-288	2.9	26
62	Non-Hermitian anisotropic XY model with intrinsic rotation-time-reversal symmetry. <i>Physical Review A</i> , 2013 , 87,	2.6	23
61	A QUANTUM SIMULATOR FOR PROBING MOTT LOBES VIA THE AC JOSEPHSON EFFECT. <i>International Journal of Quantum Information</i> , 2013 , 11, 1350049	0.8	
60	Momentum-independent reflectionless transmission in the non-Hermitian time-reversal symmetric system. <i>Annals of Physics</i> , 2013 , 339, 109-121	2.5	21
59	Scaling behavior and phase diagram of a γ -symmetric non-Hermitian Bose-Hubbard system. <i>Annals of Physics</i> , 2013 , 330, 142-159	2.5	17
58	Self-sustained emission in semi-infinite non-Hermitian systems at the exceptional point. <i>Physical Review A</i> , 2013 , 87,	2.6	22
57	Geometric phase and phase diagram for a non-Hermitian quantum XY model. <i>Physical Review A</i> , 2013 , 88,	2.6	12
56	THE PHOTON-LIKE FLYING QUBIT IN THE COUPLED CAVITY ARRAY. <i>International Journal of Quantum Information</i> , 2012 , 10, 1250002	0.8	
55	Perfect state transfer in PT-symmetric non-Hermitian networks. <i>Physical Review A</i> , 2012 , 85,	2.6	31
54	Skyrme-Hartree-Fock plus Tensor Correction for Nuclear Matter 2012 , 127, 739-749		7
53	Probability-preserving evolution in a non-Hermitian two-band model. <i>Physical Review A</i> , 2012 , 86,	2.6	26
52	Hermitian scattering behavior for a non-Hermitian scattering center. <i>Physical Review A</i> , 2012 , 85,	2.6	22
51	A physical interpretation for the non-Hermitian Hamiltonian. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011 , 44, 375304	2	15
50	Research progress on evaluation frameworks of regional ecological sustainability. <i>Chinese Geographical Science</i> , 2011 , 21, 496-510	2.9	11
49	Fast transfer and efficient coherent separation of a bound cluster in the extended Hubbard model. <i>New Journal of Physics</i> , 2011 , 13, 063009	2.9	4
48	Dynamics of a tight-binding ring threaded by time-periodic magnetic flux. <i>Physical Review A</i> , 2011 , 84,	2.6	3

47	Hermitian dynamics in a class of pseudo-Hermitian networks. <i>Physical Review A</i> , 2011 , 84,	2.6	21
46	Partitioning technique for discrete quantum systems. <i>Physical Review A</i> , 2011 , 83,	2.6	11
45	Perfect coherent shift of bound pairs in strongly correlated systems. <i>Physical Review A</i> , 2011 , 83,	2.6	5
44	Wavepacket Dynamics in a Non-Hermitian PT Symmetric Tight-Binding Chain. <i>Communications in Theoretical Physics</i> , 2010 , 54, 73-78	2.4	16
43	Physics counterpart of the PT non-Hermitian tight-binding chain. <i>Physical Review A</i> , 2010 , 81,	2.6	54
42	Rigorous results for tight-binding networks: Particle trapping and scattering. <i>Physical Review A</i> , 2010 , 81,	2.6	11
41	Dimerization-assisted energy transport in light-harvesting complexes. <i>Journal of Chemical Physics</i> , 2010 , 132, 234501	3.9	46
40	Two-band model as a quantum data bus for quantum state transfer. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010 , 53, 1266-1270	3.6	10
39	Exact results for the criticality of quench dynamics in quantum Ising models. <i>Physical Review B</i> , 2009 , 80,	3.3	8
38	Generation of Greenberger-Horne-Zeilinger and W states for stationary qubits in a spin network via resonance scattering. <i>Physical Review A</i> , 2009 , 79,	2.6	15
37	Coherent shift of localized bound pairs in the Bose-Hubbard model. <i>Physical Review A</i> , 2009 , 79,	2.6	23
36	Solutions of PT-symmetric tight-binding chain and its equivalent Hermitian counterpart. <i>Physical Review A</i> , 2009 , 80,	2.6	115
35	Coherent output of photons from coupled superconducting transmission line resonators controlled by charge qubits. <i>Physical Review A</i> , 2008 , 77,	2.6	43
34	The Peierls distorted chain as a quantum data bus for quantum state transfer. <i>Europhysics Letters</i> , 2008 , 84, 30004	1.6	31
33	Atomic entanglement versus visibility of photon interference for quantum criticality of a hybrid system. <i>Physical Review A</i> , 2008 , 77,	2.6	24
32	Dynamic generation of entangling wave packets in XY spin system with decaying long-range couplings 2008 , 51, 45-55		7
31	Quantum dynamics of tight-binding networks coherently controlled by external fields. <i>Frontiers of Physics in China</i> , 2007 , 2, 1-16		9
30	Perfect Transfer of Many-Particle Quantum State via High-Dimensional Systems with Spectrum-Matched Symmetry. <i>Communications in Theoretical Physics</i> , 2007 , 48, 445-448	2.4	10

29	Fractional revivals of the quantum state in a tight-binding chain. <i>Physical Review A</i> , 2007 , 75,	2.6	12
28	Quantum Entanglement of Two Flux Qubits Induced by an Auxiliary SQUID. <i>Communications in Theoretical Physics</i> , 2007 , 48, 1003-1008	2.4	
27	Detection mechanism for quantum phase transition in superconducting qubit array. <i>Physical Review B</i> , 2007 , 76,	3.3	30
26	Wave-packet transmission of Bloch electrons manipulated by magnetic field. <i>Physical Review A</i> , 2006 , 73,	2.6	22
25	Quantum state swapping via a qubit network with Hubbard interactions. <i>Physical Review B</i> , 2006 , 73,	3.3	9
24	Relation between two measures of entanglement in spin-1/2 and spinless fermion quantum chain systems. <i>Physical Review A</i> , 2006 , 74,	2.6	1
23	Controlling Quantum State Transfer in Spin Chain with Confined Field. <i>Communications in Theoretical Physics</i> , 2006 , 46, 749-754	2.4	6
22	Decay of Loschmidt echo enhanced by quantum criticality. <i>Physical Review Letters</i> , 2006 , 96, 140604	7.4	505
21	Beam splitter for spin waves in quantum spin network. <i>European Physical Journal B</i> , 2006 , 52, 377-381	1.2	13
20	Uptake of zinc, cadmium and phosphorus by arbuscular mycorrhizal maize (<i>Zea mays</i> L.) from a low available phosphorus calcareous soil spiked with zinc and cadmium. <i>Environmental Geochemistry and Health</i> , 2006 , 28, 111-9	4.7	61
19	Engineering antiferromagnetic Heisenberg spin chains for maximizing of the groundstate entanglement. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 342, 30-35	2.3	8
18	On Harmonic Approximation for Large Josephson Junction Coupling Charge Qubits. <i>Communications in Theoretical Physics</i> , 2005 , 43, 795-798	2.4	8
17	Quantum-state transmission via a spin ladder as a robust data bus. <i>Physical Review A</i> , 2005 , 71,	2.6	111
16	Quantum-state transfer characterized by mode entanglement. <i>Physical Review A</i> , 2005 , 72,	2.6	23
15	Characterizing entanglement by momentum jump in the frustrated Heisenberg ring at a quantum phase transition. <i>Physical Review A</i> , 2005 , 72,	2.6	32
14	Quantum-state transfer via the ferromagnetic chain in a spatially modulated field. <i>Physical Review A</i> , 2005 , 71,	2.6	128
13	Effective boson-spin model for nuclei-ensemble-based universal quantum memory. <i>Physical Review B</i> , 2005 , 71,	3.3	18
12	Quantum information storage and state transfer based on spin systems. <i>Low Temperature Physics</i> , 2005 , 31, 686-694	0.7	26

11	Monte carlo simulation of converging laser beams propagating in biological materials. <i>Applied Optics</i> , 1999 , 38, 2944-9	1.7	34
10	Relativistic Equation of State of Nuclear Matter for Supernova Explosion 1998 , 100, 1013-1031		337
9	Upper bounds to the spin gap for quantum systems from coupled chains to square lattice. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997 , 233, 135-138	2.3	2
8	Spin-1 antiferromagnetic interaction in the coupled Heisenberg chains. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997 , 231, 135-138	2.3	6
7	Haldane gap in coupled infinite-U Hubbard chains with positive hopping integral. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996 , 211, 373-376	2.3	
6	The spin reversal symmetry of the ground state of the half-filled Hubbard model. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 1395-1398	1.8	
5	Instability of the Nagaoka ferromagnetic state of the two-dimensional infinite-U Hubbard model. <i>Physical Review B</i> , 1994 , 49, 6723-6725	3.3	
4	Variational singlet wave function for the infinite-U Hubbard model with half hole concentration. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994 , 191, 449-453	2.3	
3	Antiferromagnetism in the two-dimensional infinite-U Hubbard model. <i>Physical Review B</i> , 1993 , 47, 14576-14579	2.3	
2	Perturbation technique for the infinite-U Hubbard model on a $2\mathbb{Z}$ lattice with four holes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993 , 181, 91-95	2.3	
1	Topology of a parity-time symmetric non-Hermitian rhombic lattice. <i>Chinese Physics B</i> ,	1.2	1