

Shu Chen

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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.

136
papers

3,136
citations

29
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49
g-index

145
ext. papers

4,106
ext. citations

3
avg, IF

6
L-index

#	Paper	IF	Citations
136	Edge states and topological phases in one-dimensional optical superlattices. <i>Physical Review Letters</i> , 2012 , 108, 220401	7.4	199
135	PT symmetry in the non-Hermitian Su-Schrieffer-Heeger model with complex boundary potentials. <i>Physical Review A</i> , 2014 , 89,	2.6	153
134	Geometrical meaning of winding number and its characterization of topological phases in one-dimensional chiral non-Hermitian systems. <i>Physical Review A</i> , 2018 , 97,	2.6	149
133	Intrinsic relation between ground-state fidelity and the characterization of a quantum phase transition. <i>Physical Review A</i> , 2008 , 77,	2.6	124
132	Fidelity and quantum phase transition for the Heisenberg chain with next-nearest-neighbor interaction. <i>Physical Review E</i> , 2007 , 76, 061108	2.4	113
131	Topological phases of generalized Su-Schrieffer-Heeger models. <i>Physical Review B</i> , 2014 , 89,	3.3	108
130	Exact solution for infinitely strongly interacting Fermi gases in tight waveguides. <i>Physical Review Letters</i> , 2009 , 102, 160402	7.4	94
129	Interplay of non-Hermitian skin effects and Anderson localization in nonreciprocal quasiperiodic lattices. <i>Physical Review B</i> , 2019 , 100,	3.3	84
128	Topological superconductor to Anderson localization transition in one-dimensional incommensurate lattices. <i>Physical Review Letters</i> , 2013 , 110, 176403	7.4	78
127	Topological invariants and phase diagrams for one-dimensional two-band non-Hermitian systems without chiral symmetry. <i>Physical Review A</i> , 2018 , 98,	2.6	70
126	Ground-state properties of one-dimensional ultracold Bose gases in a hard-wall trap. <i>Physical Review A</i> , 2006 , 73,	2.6	68
125	Topological classification of non-Hermitian systems with reflection symmetry. <i>Physical Review B</i> , 2019 , 99,	3.3	64
124	Fractional topological states of dipolar fermions in one-dimensional optical superlattices. <i>Physical Review Letters</i> , 2013 , 110, 215301	7.4	49
123	Observation of a Dynamical Quantum Phase Transition by a Superconducting Qubit Simulation. <i>Physical Review Applied</i> , 2019 , 11,	4.3	48
122	Abelian and non-Abelian quantum geometric tensor. <i>Physical Review B</i> , 2010 , 81,	3.3	48
121	Majorana fermions in density-modulated p-wave superconducting wires. <i>Physical Review B</i> , 2012 , 86,	3.3	48
120	Dynamical topological invariant after a quantum quench. <i>Physical Review B</i> , 2018 , 97,	3.3	45

119	Exact spontaneous plaquette ground states for high-spin ladder models. <i>Physical Review B</i> , 2005 , 72,	3.3	41
118	Ground-state properties of one-dimensional anyon gases. <i>Physical Review A</i> , 2008 , 78,	2.6	40
117	Anderson localization in the non-Hermitian Aubry-Andr�Harper model with physical gain and loss. <i>Physical Review A</i> , 2017 , 95,	2.6	38
116	Transition from a Tonks-Girardeau gas to a super-Tonks-Girardeau gas as an exact many-body dynamics problem. <i>Physical Review A</i> , 2010 , 81,	2.6	37
115	Super-Tonks-Girardeau gas of spin-1/2 interacting fermions. <i>Physical Review Letters</i> , 2010 , 105, 175301	7.4	36
114	Ground-state properties of hard-core anyons in one-dimensional optical lattices. <i>Physical Review A</i> , 2009 , 79,	2.6	35
113	Density-functional theory of two-component Bose gases in one-dimensional harmonic traps. <i>Physical Review A</i> , 2009 , 80,	2.6	32
112	Kaleidoscope of symmetry-protected topological phases in one-dimensional periodically modulated lattices. <i>Physical Review B</i> , 2015 , 91,	3.3	31
111	Topological classification of defects in non-Hermitian systems. <i>Physical Review B</i> , 2019 , 100,	3.3	31
110	Geometric phase and quantum phase transition in an inhomogeneous periodic XY spin-12 model. <i>Physical Review A</i> , 2009 , 79,	2.6	30
109	Realization of effective super Tonks-Girardeau gases via strongly attractive one-dimensional Fermi gases. <i>Physical Review A</i> , 2010 , 81,	2.6	29
108	Ground-state properties of a few-boson system in a one-dimensional hard-wall split potential. <i>Physical Review A</i> , 2008 , 78,	2.6	29
107	Ground state and excitation of an asymmetric spin ladder model. <i>Physical Review B</i> , 2003 , 67,	3.3	29
106	Non-Hermitian Kitaev chain with complex on-site potentials. <i>Physical Review A</i> , 2016 , 94,	2.6	28
105	Phase diagram of an asymmetric spin ladder. <i>Physical Review Letters</i> , 2001 , 87, 087205	7.4	28
104	Characterization of topological phase transitions via topological properties of transition points. <i>Physical Review B</i> , 2015 , 92,	3.3	27
103	Dynamical properties of hard-core anyons in one-dimensional optical lattices. <i>Physical Review A</i> , 2012 , 86,	2.6	27
102	High-order exceptional points in ultracold Bose gases. <i>Physical Review A</i> , 2019 , 99,	2.6	27

101	Non-Hermitian mobility edges in one-dimensional quasicrystals with parity-time symmetry. <i>Physical Review B</i> , 2020 , 101,	3.3	26
100	Generalized Aubry-Andr�Harper model with p-wave superconducting pairing. <i>Physical Review B</i> , 2016 , 94,	3.3	26
99	Dynamical signature of localization-delocalization transition in a one-dimensional incommensurate lattice. <i>Physical Review B</i> , 2017 , 95,	3.3	25
98	Topological Mott insulators of ultracold atomic mixtures induced by interactions in one-dimensional optical superlattices. <i>Physical Review B</i> , 2013 , 88,	3.3	25
97	Quantum phases of the Bose-Hubbard model in optical superlattices. <i>Physical Review A</i> , 2010 , 81,	2.6	25
96	Superfluid-to-Bose-glass transition of hard-core bosons in a one-dimensional incommensurate optical lattice. <i>Physical Review A</i> , 2010 , 81,	2.6	24
95	Ground-state properties of interacting two-component Bose gases in a hard-wall trap. <i>Physical Review A</i> , 2009 , 79,	2.6	24
94	Absence of Wigner molecules in one-dimensional few-fermion systems with short-range interactions. <i>Physical Review B</i> , 2012 , 86,	3.3	23
93	One-dimensional fermionic gases with attractive p-wave interaction in a hard-wall trap. <i>Physical Review A</i> , 2007 , 76,	2.6	23
92	Winding numbers of phase transition points for one-dimensional topological systems. <i>Europhysics Letters</i> , 2015 , 112, 10004	1.6	22
91	Helical damping and dynamical critical skin effect in open quantum systems. <i>Physical Review Research</i> , 2020 , 2,	3.9	21
90	The Euler number of Bloch states manifold and the quantum phases in gapped fermionic systems. <i>Europhysics Letters</i> , 2013 , 103, 10008	1.6	20
89	Strongly interacting Bose-Fermi mixtures in one dimension. <i>New Journal of Physics</i> , 2016 , 18, 025009	2.9	19
88	Topological nature of magnetization plateaus in periodically modulated quantum spin chains. <i>Physical Review B</i> , 2014 , 90,	3.3	19
87	Dynamical Anderson transition in one-dimensional periodically kicked incommensurate lattices. <i>Physical Review B</i> , 2014 , 90,	3.3	18
86	Universal Tomonaga-Luttinger liquid phases in one-dimensional strongly attractive SU(N) fermionic cold atoms. <i>Physical Review A</i> , 2010 , 82,	2.6	18
85	Characterization of topological phases of dimerized Kitaev chain via edge correlation functions. <i>Physical Review B</i> , 2017 , 96,	3.3	17
84	Interplay between Fano resonance and PT symmetry in non-Hermitian discrete systems. <i>Physical Review A</i> , 2015 , 91,	2.6	16

83	Strongly interacting one-dimensional quantum gas mixtures with weak p-wave interactions. <i>Physical Review A</i> , 2016 , 93,	2.6	16
82	Spectral statistics, finite-size scaling and multifractal analysis of quasiperiodic chain with p-wave pairing. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	16
81	Transport through a quantum dot coupled to two Majorana bound states. <i>Frontiers of Physics</i> , 2017 , 12, 1	3.7	16
80	Characterization of symmetry-protected topological phases in polymerized models by trajectories of Majorana stars. <i>Physical Review B</i> , 2015 , 91,	3.3	16
79	Yang-Yang thermodynamics of a Bose-Fermi mixture. <i>Physical Review A</i> , 2009 , 79,	2.6	16
78	Exact mobility edges, PT-symmetry breaking, and skin effect in one-dimensional non-Hermitian quasicrystals. <i>Physical Review B</i> , 2021 , 103,	3.3	16
77	Caution on emergent continuous symmetry: A Monte Carlo investigation of the transverse-field frustrated Ising model on the triangular and honeycomb lattices. <i>Physical Review B</i> , 2017 , 96,	3.3	15
76	Quantum criticality and universal scaling of strongly attractive spin-imbalanced Fermi gases in a one-dimensional harmonic trap. <i>Physical Review A</i> , 2011 , 84,	2.6	15
75	Quantum entanglement of particles on a ring with fractional statistics. <i>Physical Review A</i> , 2009 , 80,	2.6	15
74	One-Dimensional Quasiperiodic Mosaic Lattice with Exact Mobility Edges. <i>Physical Review Letters</i> , 2020 , 125, 196604	7.4	15
73	Many-body ground state localization and coexistence of localized and extended states in an interacting quasiperiodic system. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	14
72	Quantum criticality of a one-dimensional Bose-Fermi mixture. <i>Physical Review A</i> , 2012 , 85,	2.6	14
71	Magnetism of cold fermionic atoms on the p band of an optical lattice. <i>Physical Review A</i> , 2008 , 78,	2.6	14
70	Topological Bose-Mott insulators in one-dimensional non-Hermitian superlattices. <i>Physical Review B</i> , 2020 , 102,	3.3	14
69	Interacting non-Hermitian ultracold atoms in a harmonic trap: Two-body exact solution and a high-order exceptional point. <i>Physical Review A</i> , 2019 , 99,	2.6	12
68	Hidden-symmetry-protected topological phases on a one-dimensional lattice. <i>Europhysics Letters</i> , 2015 , 109, 40006	1.6	12
67	Topological invariants, zero mode edge states and finite size effect for a generalized non-reciprocal Su-Schrieffer-Heeger model. <i>European Physical Journal B</i> , 2020 , 93, 1	1.2	12
66	Topological invariants for phase transition points of one-dimensional Z2 topological systems. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	12

65	Complete phase diagram and topological properties of interacting bosons in one-dimensional superlattices. <i>Physical Review B</i> , 2015 , 91,	3.3	12
64	Ground-state and dynamical properties of hard-core bosons in one-dimensional incommensurate optical lattices with a harmonic trap. <i>Physical Review A</i> , 2010 , 81,	2.6	12
63	Preparation of stable excited states in an optical lattice via sudden quantum quench. <i>Physical Review A</i> , 2010 , 81,	2.6	12
62	Dynamical observation of mobility edges in one-dimensional incommensurate optical lattices. <i>New Journal of Physics</i> , 2020 , 22, 013036	2.9	11
61	2Eflux loop semimetals. <i>Physical Review B</i> , 2017 , 96,	3.3	11
60	Spontaneous trimerization in two-dimensional antiferromagnets. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 456009	1.8	11
59	Two-component interacting Tonks-Girardeau gas in a one-dimensional optical lattice. <i>Europhysics Letters</i> , 2009 , 85, 60004	1.6	11
58	Properties of a class of topological phase transitions. <i>Physical Review B</i> , 2008 , 78,	3.3	11
57	Density distributions for trapped one-dimensional spinor gases. <i>Physical Review A</i> , 2006 , 73,	2.6	11
56	Zeros of Loschmidt echo in the presence of Anderson localization. <i>Physical Review A</i> , 2018 , 97,	2.6	10
55	PT-symmetry breaking for the scattering problem in a one-dimensional non-Hermitian lattice model. <i>Physical Review A</i> , 2016 , 93,	2.6	10
54	Exact ground state and elementary excitations of the spin tetrahedron chain. <i>Physical Review B</i> , 2006 , 74,	3.3	10
53	Chiral topological insulating phases from three-dimensional nodal loop semimetals. <i>Physical Review B</i> , 2017 , 95,	3.3	9
52	Dynamical evolutions in non-Hermitian triple-well systems with a complex potential. <i>Physical Review A</i> , 2018 , 97,	2.6	9
51	Bosonic edge states in gapped honeycomb lattices. <i>Physical Review B</i> , 2016 , 93,	3.3	9
50	Topological phase transition and charge pumping in a one-dimensional periodically driven optical lattice. <i>Physical Review A</i> , 2017 , 96,	2.6	9
49	Topological incommensurate magnetization plateaus in quasi-periodic quantum spin chains. <i>Scientific Reports</i> , 2015 , 5, 8433	4.9	9
48	Quantum criticality in disordered bosonic optical lattices. <i>Physical Review A</i> , 2011 , 83,	2.6	9

47	Effective super Tonks-Girardeau gases as ground states of strongly attractive multicomponent fermions. <i>Physical Review A</i> , 2011 , 83,	2.6	9
46	Topological Mott insulator with bosonic edge modes in one-dimensional fermionic superlattices. <i>Physical Review A</i> , 2019 , 100,	2.6	7
45	Exact ordering of energy levels for one-dimensional interacting Fermi gases with SU(N) symmetry. <i>Physical Review B</i> , 2017 , 96,	3.3	7
44	Mathematical calculation for exact solutions of infinitely strongly interacting Fermi gases in tight waveguides. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009 , 42, 385210	2	7
43	Dynamical evolution in a one-dimensional incommensurate lattice with PT symmetry. <i>Physical Review A</i> , 2021 , 103,	2.6	7
42	Signature of a nonequilibrium quantum phase transition in the long-time average of the Loschmidt echo. <i>Physical Review B</i> , 2019 , 100,	3.3	7
41	Quantum walks in the commensurate off-diagonal Aubry-André-Harper model. <i>Physical Review A</i> , 2017 , 95,	2.6	6
40	Mixture of Tonks-Girardeau gas and Fermi gas in one-dimensional optical lattices. <i>Physical Review A</i> , 2010 , 82,	2.6	6
39	Cavity-enhanced detection of magnetic order in lattice spin models. <i>Physical Review A</i> , 2009 , 79,	2.6	6
38	Two-dimensional spin-1 frustrated Heisenberg model with valence-bond ground states. <i>Physical Review B</i> , 2007 , 76,	3.3	6
37	Exact non-Hermitian mobility edges in one-dimensional quasicrystal lattice with exponentially decaying hopping and its dual lattice. <i>Physical Review B</i> , 2021 , 103,	3.3	6
36	Fate of zero modes in a finite Su-Schrieffer-Heeger model with PT symmetry. <i>Physical Review A</i> , 2020 , 101,	2.6	5
35	Quench dynamics in the Aubry-André-Harper model with p-wave superconductivity. <i>New Journal of Physics</i> , 2018 , 20, 053012	2.9	5
34	Quantum walks accompanied by spin flipping in one-dimensional optical lattices. <i>Physical Review A</i> , 2015 , 92,	2.6	5
33	Topologically protected mid-gap states induced by impurity in one-dimensional superlattices. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 065302	1.3	5
32	Wigner crystal versus fermionization for one-dimensional Hubbard models with and without long-range interactions. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 055601	1.8	5
31	Chen, Böttner, and Voit Reply. <i>Physical Review Letters</i> , 2002 , 89,	7.4	5
30	Interaction-induced dynamical PT-symmetry breaking in dissipative Fermi-Hubbard models. <i>Physical Review A</i> , 2020 , 102,	2.6	5

29	The nontrivial states in one-dimensional nonlinear bichromatic superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 90, 183-188	3	4
28	Phase diagram of a generalized off-diagonal Aubry-Andr� model with p-wave pairing. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 025301	1.3	4
27	Fractional topological states in quantum spin chains with periodical modulation. <i>Physical Review B</i> , 2016 , 93,	3.3	4
26	Effect of incommensurate potential on the resonant tunneling through Majorana bound states on the topological superconductor chains. <i>European Physical Journal B</i> , 2014 , 87, 1	1.2	4
25	Quantum dynamics in driven sawtooth lattice under uniform magnetic field. <i>Physical Review A</i> , 2013 , 87,	2.6	4
24	Lowest scattering state of one-dimensional Bose gases with attractive interactions. <i>Physical Review A</i> , 2011 , 83,	2.6	4
23	Topological invariant in quench dynamics. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019 , 68, 220304	0.6	4
22	Effect of an incommensurate potential on nodal-link semimetals. <i>Physical Review B</i> , 2018 , 98,	3.3	4
21	Localization transition, spectrum structure, and winding numbers for one-dimensional non-Hermitian quasicrystals. <i>Physical Review B</i> , 2021 , 104,	3.3	4
20	Spectroscopy and spin dynamics for strongly interacting few-spinor bosons in one-dimensional traps. <i>Physical Review A</i> , 2017 , 95,	2.6	3
19	Fate of Weyl semimetals in the presence of incommensurate potentials. <i>Physical Review A</i> , 2017 , 95,	2.6	3
18	Almost mobility edges and the existence of critical regions in one-dimensional quasiperiodic lattices. <i>European Physical Journal B</i> , 2017 , 90, 1	1.2	3
17	Quantum phase transition and elementary excitations of a Bose-Fermi mixture in a one-dimensional optical lattice. <i>Physical Review B</i> , 2009 , 80,	3.3	3
16	Properties and applications of one dimensional quasiperiodic lattices. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019 , 68, 040301	0.6	3
15	Exact Solution of Non-Hermitian Systems with Generalized Boundary Conditions: Size-Dependent Boundary Effect and Fragility of the Skin Effect. <i>Physical Review Letters</i> , 2021 , 127, 116801	7.4	3
14	The nontrivial topological phases of a one-dimensional non-Hermitian dimerized lattice with spin-orbit coupling and Zeeman field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 110, 68-73	3	2
13	Characterization of Lifshitz transitions in topological nodal line semimetals. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	2
12	Quantum Hall effects in a non-Abelian honeycomb lattice. <i>Physical Review A</i> , 2015 , 92,	2.6	2

11	Ground-state competition of two-component bosons in an optical lattice near a Feshbach resonance. <i>Physical Review A</i> , 2007 , 75,	2.6	2
10	Diagnosis of bulk phase diagram of nonreciprocal topological lattices by impurity modes. <i>Physical Review B</i> , 2020 , 102,	3.3	2
9	Exact mobility edges and topological phase transition in two-dimensional non-Hermitian quasicrystals. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022 , 65, 1	3.6	2
8	Transition from a nodal-loop phase to a nodal-chain phase in a periodically modulated optical lattice. <i>Physical Review A</i> , 2018 , 97,	2.6	1
7	Many-body stabilization of a resonant p-wave Fermi gas in one dimension. <i>Physical Review A</i> , 2018 , 98,	2.6	1
6	Ferromagnetic to antiferromagnetic transition of one-dimensional spinor Bose gases with spin-orbit coupling. <i>European Physical Journal D</i> , 2013 , 67, 1	1.3	1
5	Exact ground states for spin-1 systems with spin-orbital coupling. <i>Physical Review B</i> , 2005 , 72,	3.3	1
4	Mass-Imbalanced Atoms in a Hard-Wall Trap: An Exactly Solvable Model Associated with D Symmetry. <i>IScience</i> , 2019 , 22, 181-194	6.1	1
3	Exact zeros of the Loschmidt echo and quantum speed limit time for the dynamical quantum phase transition in finite-size systems. <i>Physical Review B</i> , 2021 , 104,	3.3	1
2	Characterization of Phase Transition Points for Topological Gapped Systems 2019 , 1-43		
1	Exact solutions of a one-dimensional mixture of spinor bosons and spinor fermions. <i>Nuclear Physics B</i> , 2009 , 820, 753-779	2.8	