## Wei-Min Zhang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8194683/publications.pdf

Version: 2024-02-01

159585 106344 4,429 116 30 65 citations g-index h-index papers 117 117 117 1863 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Nonperturbative renormalization of quantum thermodynamics from weak to strong couplings. Physical Review Research, 2022, 4, .	3.6	9
2	The differential conductance tunnel spectroscopy in an analytical solvable two-terminal Majorana device. New Journal of Physics, 2022, 24, 073015.	2.9	1
3	Non-Markovian decoherence dynamics of strong-coupling hybrid quantum systems: A master equation approach. Physical Review A, 2021, 103, .	2.5	8
4	Modeling Neuronal Systems as an Open Quantum System. Symmetry, 2021, 13, 1603.	2.2	3
5	Manipulating Majorana qubit states without braiding. Physical Review B, 2021, 104, .	3.2	3
6	Controlling the dynamics of dissipationless localized bound states in open quantum systems with periodic driving fields. Physical Review A, $2021,104,.$	2.5	0
7	Quantum theory of dissipative topological systems. Physical Review B, 2020, 102, .	3.2	13
8	Probing topological states through the exact non-Markovian decoherence dynamics of a spin coupled to a spin bath in the real-time domain. Physical Review B, 2020, 102, .	3.2	5
9	Quantum thermodynamics of single particle systems. Scientific Reports, 2020, 10, 13500.	3.3	20
10	Exact dynamics and thermalization of open quantum systems coupled to reservoirs through particle exchanges. Physical Review A, 2020, 102, .	2.5	4
11	Decoherence dynamics of Majorana qubits under braiding operations. Physical Review B, 2020, 101, .	3.2	7
12	Exact master equation and general non-Markovian dynamics in open quantum systems. European Physical Journal: Special Topics, 2019, 227, 1849-1867.	2.6	19
13	Exact master equation and non-Markovian decoherence dynamics of Majorana zero modes under gate-induced charge fluctuations. Physical Review B, 2018, 97, .	3.2	32
14	Buildup of Fano resonances in the time domain in a double quantum dot Aharonov-Bohm interferometer. Physical Review B, 2018, 97, .	3.2	12
15	Manipulating quantum coherence of charge states in interacting double-dot Aharonov–Bohm interferometers. New Journal of Physics, 2018, 20, 043043.	2.9	5
16	Nonequilibrium transient dynamics of photon statistics. Physical Review A, 2017, 95, .	2.5	13
17	Master equation approach to transient quantum transport in nanostructures. Frontiers of Physics, 2017, 12, 1.	5.0	20
18	Quantum coherence of the molecular states and their corresponding currents in nanoscale Aharonov-Bohm interferometers. Physical Review B, 2016, 94, .	3.2	5

#	Article	IF	Citations
19	Transient probing of the symmetry and the asymmetry of electron interference. Physical Review B, 2016, 93, .	3.2	13
20	Non-equilibrium quantum phase transition via entanglement decoherence dynamics. Scientific Reports, 2016, 6, 34804.	3.3	13
21	Non-Markovianity measure using two-time correlation functions. Physical Review A, 2015, 92, .	2.5	41
22	Master equation approach to transient quantum transport in nanostructures incorporating initial correlations. Physical Review B, 2015, 92, .	3.2	29
23	ZhangetÂal.Reply:. Physical Review Letters, 2015, 115, 168902.	7.8	1
24	Non-Markovian Complexity in the Quantum-to-Classical Transition. Scientific Reports, 2015, 5, 13353.	3.3	57
25	Breakdown of Bose-Einstein Distribution in Photonic Crystals. Scientific Reports, 2015, 5, 9423.	3.3	37
26	Exact decoherence dynamics of 1/ <i>f</i> i>noise. New Journal of Physics, 2014, 16, 103010.	2.9	7
27	Transient current-current correlations and noise spectra. Physical Review B, 2014, 89, .	3.2	23
28	Real-time dynamics of spin-dependent transport through a double-quantum-dot Aharonov-Bohm interferometer with spin-orbit interaction. Physical Review B, 2014, 90, .	3.2	9
29	Master equation and dispersive probing of a non-Markovian process. Physical Review A, 2013, 87, .	2.5	20
30	Quantum-criticality-induced strong Kerr nonlinearities in optomechanical systems. Scientific Reports, 2013, 3, 2943.	3.3	150
31	Precision control of charge coherence in parallel double dot systems through spin-orbit interaction. Journal of Chemical Physics, 2013, 139, 064706.	3.0	4
32	Coherent control of double-dot molecules using Aharonov-Bohm magnetic flux. Physical Review B, 2012, 86, .	3.2	6
33	Dynamically stabilized decoherence-free states in non-Markovian open fermionic systems. Physical Review A, 2012, 86, .	2.5	16
34	Decoherence suppression via non-Markovian coherent feedback control. Physical Review A, 2012, 86, .	2.5	75
35	General Non-Markovian Dynamics of Open Quantum Systems. Physical Review Letters, 2012, 109, 170402.	7.8	272
36	Transient quantum transport in double-dot Aharonov-Bohm interferometers. Physical Review B, 2012, 86, .	3.2	22

#	Article	IF	Citations
37	A quantum photonic dissipative transport theory. Annals of Physics, 2012, 327, 1408-1433.	2.8	63
38	Deterministic chaos can act as a decoherence suppressor. Physical Review B, 2011, 84, .	3.2	18
39	Entangling two distant nanocavities via a waveguide. Physical Review A, 2011, 83, .	2.5	30
40	Single-electron turnstile pumping with high frequencies. Applied Physics Letters, 2011, 99, .	3.3	6
41	Decoherence suppression of open quantum systems through a strong coupling to non-Markovian reservoirs. Physical Review A, 2011, 84, .	2.5	39
42	Non-Markovian dynamics of an open quantum system with initial system-reservoir correlations: A nanocavity coupled to a coupled-resonator optical waveguide. Physical Review A, 2011, 83, .	2.5	90
43	Intrinsic coherence dynamics and phase localization in nanoscale Aharonov-Bohm interferometers. Physical Review B, 2011, 83, .	3.2	16
44	Exact non-Markovian cavity dynamics strongly coupled to a reservoir. Physical Review A, 2010, 82, .	2.5	62
45	Decoherence dynamics of coherent electronic excited states in the photosynthetic purple bacteriumRhodobacter sphaeroides. Physical Review E, 2010, 81, 011906.	2.1	14
46	Non-equilibrium quantum theory for nanodevices based on the Feynman–Vernon influence functional. New Journal of Physics, 2010, 12, 083013.	2.9	95
47	Non-Markovian dynamics of a microcavity coupled to a waveguide in photonic crystals. Optics Express, 2010, 18, 18407.	3.4	42
48	Influence of surface plasmon resonance on the emission intermittency of photoluminescence from gold nano-sea-urchins. Nanoscale, 2010, 2, 2639.	5.6	35
49	Entanglement oscillation and survival induced by non-Markovian decoherence dynamics of the entangled squeezed state. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 015302.	2.1	12
50	Exact master equation and non-markovian decoherence for quantum dot quantum computing. Quantum Information Processing, 2009, 8, 631-646.	2.2	22
51	Entangling two superconducting <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>L</mml:mi><mml:mi>C</mml:mi></mml:mrow></mml:math> coherent modes via a superconducting flux qubit. Physical Review B, 2009, 80, .	3.2	31
52	Magnetic field switching in parallel quantum dots. Europhysics Letters, 2009, 88, 37001.	2.0	18
53	Non-Markovian decoherence theory for a double-dot charge qubit. Physical Review B, 2008, 78, .	3.2	203
54	Non-Markovian suppression of charge qubit decoherence in the quantum point contact measurement. Journal of Chemical Physics, 2008, 129, 224106.	3.0	11

#	Article	IF	CITATIONS
55	Exact wave packet decoherence dynamics in a discrete spectrum environment. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 245501.	1.5	O
56	Generation of entangled photon pairs by semiconductor quantum dots in a structure of quantum cellular automata. Journal of Physics Condensed Matter, 2007, 19, 326215.	1.8	1
57	Non-Markovian entanglement dynamics of noisy continuous-variable quantum channels. Physical Review A, 2007, 76, .	2.5	134
58	Charge-to-spin conversion of electron entanglement states and spin-interaction-free solid-state quantum computation. Physical Review B, 2007, 76, .	3.2	9
59	Decoherence induced by electron accumulation in a quantum measurement of charge qubits. Physical Review B, 2006, 74, .	3.2	7
60	Implementing controlled-NOT gate based on free spin qubits with semiconductor quantum-dot array. Europhysics Letters, 2005, 71, 524-529.	2.0	4
61	QUANTUM COMPUTATION BASED ON ELECTRON SPIN QUBITS WITHOUT SPIN-SPIN INTERACTION. International Journal of Quantum Information, 2005, 03, 155-162.	1.1	0
62	Quantum NonlinearÏfModel for Arbitrary Spin Heisenberg Antiferromagnets. Physical Review Letters, 2005, 95, 167205.	7.8	3
63	EFFECTS OF INTERFACIAL PSEUDO-SPIN COUPLING FLUCTUATIONS ON THE DIELECTRIC PROPERTIES OF FERROELECTRIC SUPERLATTICES. International Journal of Modern Physics B, 2005, 19, 3193-3203.	2.0	1
64	QUANTUM COMPUTATION BASED ON ELECTRON SPIN QUBITS WITHOUT SPIN-SPIN INTERACTION. , 2005, , .		0
65	Chiral symmetry in light-front QCD. Journal of High Energy Physics, 2004, 2004, 045-045.	4.7	6
66	SUM(2)×UC(1)gauge symmetry in high-Tcsuperconductivity. Physical Review B, 2002, 65, .	3.2	1
67	Nontrivial gauge symmetry in high Tc superconductivity. Physica C: Superconductivity and Its Applications, 2001, 364-365, 147-150.	1.2	1
68		4.7	0.0
	Mesonic tensor form factors with the light front quark model. Physical Review D, 2001, 64, .	4.7	23
69	Coherent pairing state and high Tc superconductivity. Physica C: Superconductivity and Its Applications, 2000, 341-348, 313-314.	1.2	0
69 70	Coherent pairing state and high Tc superconductivity. Physica C: Superconductivity and Its		
	Coherent pairing state and high Tc superconductivity. Physica C: Superconductivity and Its Applications, 2000, 341-348, 313-314.  Nonperturbative determination of heavy meson bound states. Nuclear Physics A, 2000, 663-664,	1.2	0

#	Article	IF	Citations
73	Underlying pairing states in cuprate superconductors. Physical Review B, 2000, 61, R898-R901.	3.2	2
74	NONPERTURBATIVE DESCRIPTION OF B-MESONS., 2000,,.		0
75	Nonperturbative determination of heavy meson bound states. Physical Review D, 1999, 60, .	4.7	3
76	Nonperturbative description of deep inelastic structure functions in light-front QCD. Physical Review D, 1999, 59, .	4.7	18
77	Study ofBc+â†'l+νlγdecays in the light front model. Physical Review D, 1999, 59, .	4.7	22
78	Deep inelastic structure functions in light-front QCD: Radiative corrections. Physical Review D, 1999, 59, .	4.7	33
79	Radiative leptonicBdecays in the light front model. Physical Review D, 1998, 57, 5697-5702.	4.7	43
80	Influence of dynamical Pauli effect and dynamical symmetry breaking on quantum chaos. Physical Review C, 1998, 57, 637-647.	2.9	0
81	Covariant light-front model of heavy mesons within heavy quark effective theory. Physical Review D, 1998, 57, 5598-5610.	4.7	24
82	Effective field theory of heavy mesons. Physical Review D, 1998, 58, .	4.7	3
83	Quantum Frenkel-Kontorova model:â€,A squeezed state approach. Physical Review E, 1998, 58, R4068-R4071.	2.1	17
84	FIELD-THEORETIC REALIZATION OF HEAVY MESONS AS COMPOSITE PARTICLES. Modern Physics Letters A, 1998, 13, 2163-2171.	1.2	4
85	Weak-coupling treatment of nonperturbative QCD dynamics to heavy hadrons. Physical Review D, 1997, 56, 1528-1548.	4.7	24
86	\$B ightarrow pi l $\{u\}$ \$ form factors calculated on the light-front. Zeitschrift FÃ $^1\!\!/\!4$ r Physik C-Particles and Fields, 1997, 75, 657-664.	1.5	30
87	The matrix element of the transverse component of the bilocal vector current and its parton interpretation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 390, 359-362.	4.1	7
88	Examination of Wandzura-Wilczek relation for g2(x, Q2) in pQCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 408, 347-356.	4.1	17
89	HEAVY QUARK EFFECTIVE THEORY ON THE LIGHT FRONT. International Journal of Modern Physics A, 1996, 11, 3297-3305.	1.5	8
90	Quantum nonintegrability in finite systems. Physics Reports, 1995, 252, 1-100.	25.6	65

#	Article	IF	Citations
91	Light-front heavy-quark effective theory and heavy-meson bound states. Physical Review D, 1995, 52, 2915-2925.	4.7	21
92	Wave-packet localization in nonlinear external potentials with dissipation. Physical Review A, 1995, 52, 1746-1749.	2.5	8
93	Possibility that Schrödinger's conjecture for the hydrogen-atom coherent states is not attainable. Physical Review A, 1994, 50, R1973-R1975.	2.5	18
94	Nonperturbative QCD: A weak-coupling treatment on the light front. Physical Review D, 1994, 49, 6720-6766.	4.7	240
95	A simple example of light-front current renormalization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 333, 158-165.	4.1	3
96	Classicalization and Coherent States. , 1994, , .		0
97	Residual gauge fixing in light-front QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 314, 223-228.	4.1	16
98	GEOMETRY IN QUANTUM NON-INTEGRABILITY. Modern Physics Letters A, 1993, 08, 1417-1425.	1.2	4
99	Light-front QCD. III. Coupling constant renormalization. Physical Review D, 1993, 48, 4903-4915.	4.7	39
100	Light-front QCD. I. Role of longitudinal boundary integrals. Physical Review D, 1993, 48, 4868-4880.	4.7	47
101	Light-front QCD. II. Two-component theory. Physical Review D, 1993, 48, 4881-4902.	4.7	81
102	Quantum-Classical Correspondence and Quantum Chaos., 1992,, 66-107.		0
103	Transport theory of relativistic heavy-ion collisions with chiral symmetry. Physical Review C, 1992, 45, 1900-1917.	2.9	42
104	Solar weak currents, neutrino oscillations, and time variations. Physical Review D, 1991, 43, 2484-2494.	4.7	27
105	Dynamical symmetry breaking and mean-field chaotic motions in nuclear many-body systems. Physical Review C, 1991, 43, 1127-1139.	2.9	9
106	Coherent states: Theory and some applications. Reviews of Modern Physics, 1990, 62, 867-927.	45.6	1,277
107	Integrability and nonintegrability of quantum systems. II. Dynamics in quantum phase space. Physical Review A, 1990, 42, 7125-7150.	2.5	29
108	Quantum fluctuations in classical chaos. Physical Review A, 1990, 42, 3646-3649.	2.5	8

#	Article	IF	CITATIONS
109	Integrability and nonintegrability of quantum systems: Quantum integrability and dynamical symmetry. Physical Review A, 1989, 40, 438-447.	2.5	53
110	Dynamical Pauli effect on geometry. Journal of Physics G: Nuclear and Particle Physics, 1989, 15, L115-L121.	3.6	10
111	Symmetry constrained Hartree-Fock-Bogoliubov theory with applications to the fermion dynamical symmetry model. Nuclear Physics A, 1989, 505, 7-25.	1.5	8
112	Dynamical Symmetry Breaking and Quantum Nonintegrability. Physical Review Letters, 1988, 61, 2167-2170.	7.8	38
113	Geometrical structure and critical phenomena in the fermion dynamical symmetry model: SO(8). Physical Review C, 1988, 37, 1281-1294.	2.9	28
114	Geometrical structure and critical phenomena in the fermion dynamical symmetry model: Sp(6). Physical Review C, 1988, 38, 1475-1487.	2.9	30
115	Geometrical interpretation of SO(7): A critical dynamical symmetry. Physical Review Letters, 1987, 59, 2032-2035.	7.8	35
116	Nobel Metal Nanoparticles in Bio-LED. , 0, , .		0