List of Publications by Year in descending order

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WELMIN ZHANC

#	Article	IF	CITATIONS
1	Coherent states: Theory and some applications. Reviews of Modern Physics, 1990, 62, 867-927.	45.6	1,277
2	General Non-Markovian Dynamics of Open Quantum Systems. Physical Review Letters, 2012, 109, 170402.	7.8	272
3	Nonperturbative QCD: A weak-coupling treatment on the light front. Physical Review D, 1994, 49, 6720-6766.	4.7	240
4	Non-Markovian decoherence theory for a double-dot charge qubit. Physical Review B, 2008, 78, .	3.2	203
5	Quantum-criticality-induced strong Kerr nonlinearities in optomechanical systems. Scientific Reports, 2013, 3, 2943.	3.3	150
6	Non-Markovian entanglement dynamics of noisy continuous-variable quantum channels. Physical Review A, 2007, 76, .	2.5	134
7	Non-equilibrium quantum theory for nanodevices based on the Feynman–Vernon influence functional. New Journal of Physics, 2010, 12, 083013.	2.9	95
8	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
9	Light-front QCD. II. Two-component theory. Physical Review D, 1993, 48, 4881-4902.	4.7	81
10	Decoherence suppression via non-Markovian coherent feedback control. Physical Review A, 2012, 86, .	2.5	75
11	Quantum nonintegrability in finite systems. Physics Reports, 1995, 252, 1-100.	25.6	65
12	A quantum photonic dissipative transport theory. Annals of Physics, 2012, 327, 1408-1433.	2.8	63
13	Exact non-Markovian cavity dynamics strongly coupled to a reservoir. Physical Review A, 2010, 82, .	2.5	62
14	Non-Markovian Complexity in the Quantum-to-Classical Transition. Scientific Reports, 2015, 5, 13353.	3.3	57
15	Integrability and nonintegrability of quantum systems: Quantum integrability and dynamical symmetry. Physical Review A, 1989, 40, 438-447.	2.5	53
16	Light-front QCD. I. Role of longitudinal boundary integrals. Physical Review D, 1993, 48, 4868-4880.	4.7	47
17	Radiative leptonicBdecays in the light front model. Physical Review D, 1998, 57, 5697-5702.	4.7	43
18	Transport theory of relativistic heavy-ion collisions with chiral symmetry. Physical Review C, 1992, 45, 1900-1917.	2.9	42

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19	Non-Markovian dynamics of a microcavity coupled to a waveguide in photonic crystals. Optics Express, 2010, 18, 18407.	3.4	42
20	Study ofBs,d→l+lâ~'γdecays. Physical Review D, 2000, 62, .	4.7	41
21	Non-Markovianity measure using two-time correlation functions. Physical Review A, 2015, 92, .	2.5	41
22	Light-front QCD. III. Coupling constant renormalization. Physical Review D, 1993, 48, 4903-4915.	4.7	39
23	Decoherence suppression of open quantum systems through a strong coupling to non-Markovian reservoirs. Physical Review A, 2011, 84, .	2.5	39
24	Dynamical Symmetry Breaking and Quantum Nonintegrability. Physical Review Letters, 1988, 61, 2167-2170.	7.8	38
25	Breakdown of Bose-Einstein Distribution in Photonic Crystals. Scientific Reports, 2015, 5, 9423.	3.3	37
26	Geometrical interpretation of SO(7): A critical dynamical symmetry. Physical Review Letters, 1987, 59, 2032-2035.	7.8	35
27	Influence of surface plasmon resonance on the emission intermittency of photoluminescence from gold nano-sea-urchins. Nanoscale, 2010, 2, 2639.	5.6	35
28	Deep inelastic structure functions in light-front QCD: Radiative corrections. Physical Review D, 1999, 59, .	4.7	33
29	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
30	Entangling two superconducting <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><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
31	Geometrical structure and critical phenomena in the fermion dynamical symmetry model: Sp(6). Physical Review C, 1988, 38, 1475-1487.	2.9	30
32	\$B ightarrow pi l {u}\$ form factors calculated on the light-front. Zeitschrift Für Physik C-Particles and Fields, 1997, 75, 657-664.	1.5	30
33	Entangling two distant nanocavities via a waveguide. Physical Review A, 2011, 83, .	2.5	30
34	Integrability and nonintegrability of quantum systems. II. Dynamics in quantum phase space. Physical Review A, 1990, 42, 7125-7150.	2.5	29
35	Master equation approach to transient quantum transport in nanostructures incorporating initial correlations. Physical Review B, 2015, 92, .	3.2	29
36	Geometrical structure and critical phenomena in the fermion dynamical symmetry model: SO(8). Physical Review C, 1988, 37, 1281-1294.	2.9	28

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37	Solar weak currents, neutrino oscillations, and time variations. Physical Review D, 1991, 43, 2484-2494.	4.7	27
38	STUDY OF RADIATIVE LEPTONIC D MESON DECAYS. Modern Physics Letters A, 2000, 15, 2087-2103.	1.2	26
39	Weak-coupling treatment of nonperturbative QCD dynamics to heavy hadrons. Physical Review D, 1997, 56, 1528-1548.	4.7	24
40	Covariant light-front model of heavy mesons within heavy quark effective theory. Physical Review D, 1998, 57, 5598-5610.	4.7	24
41	Mesonic tensor form factors with the light front quark model. Physical Review D, 2001, 64, .	4.7	23
42	Transient current-current correlations and noise spectra. Physical Review B, 2014, 89, .	3.2	23
43	Study ofBc+→l+νlγdecays in the light front model. Physical Review D, 1999, 59, .	4.7	22
44	Exact master equation and non-markovian decoherence for quantum dot quantum computing. Quantum Information Processing, 2009, 8, 631-646.	2.2	22
45	Transient quantum transport in double-dot Aharonov-Bohm interferometers. Physical Review B, 2012, 86, .	3.2	22
46	Light-front heavy-quark effective theory and heavy-meson bound states. Physical Review D, 1995, 52, 2915-2925.	4.7	21
47	Master equation and dispersive probing of a non-Markovian process. Physical Review A, 2013, 87, .	2.5	20
48	Master equation approach to transient quantum transport in nanostructures. Frontiers of Physics, 2017, 12, 1.	5.0	20
49	Quantum thermodynamics of single particle systems. Scientific Reports, 2020, 10, 13500.	3.3	20
50	Exact master equation and general non-Markovian dynamics in open quantum systems. European Physical Journal: Special Topics, 2019, 227, 1849-1867.	2.6	19
51	Possibility that Schrödinger's conjecture for the hydrogen-atom coherent states is not attainable. Physical Review A, 1994, 50, R1973-R1975.	2.5	18
52	Nonperturbative description of deep inelastic structure functions in light-front QCD. Physical Review D, 1999, 59, .	4.7	18
53	Magnetic field switching in parallel quantum dots. Europhysics Letters, 2009, 88, 37001.	2.0	18
54	Deterministic chaos can act as a decoherence suppressor. Physical Review B, 2011, 84, .	3.2	18

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55	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
56	Quantum Frenkel-Kontorova model:â€,A squeezed state approach. Physical Review E, 1998, 58, R4068-R4071.	2.1	17
57	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
58	Intrinsic coherence dynamics and phase localization in nanoscale Aharonov-Bohm interferometers. Physical Review B, 2011, 83, .	3.2	16
59	Dynamically stabilized decoherence-free states in non-Markovian open fermionic systems. Physical Review A, 2012, 86, .	2.5	16
60	Decoherence dynamics of coherent electronic excited states in the photosynthetic purple bacteriumRhodobacter sphaeroides. Physical Review E, 2010, 81, 011906.	2.1	14
61	Transient probing of the symmetry and the asymmetry of electron interference. Physical Review B, 2016, 93, .	3.2	13
62	Non-equilibrium quantum phase transition via entanglement decoherence dynamics. Scientific Reports, 2016, 6, 34804.	3.3	13
63	Nonequilibrium transient dynamics of photon statistics. Physical Review A, 2017, 95, .	2.5	13
64	Quantum theory of dissipative topological systems. Physical Review B, 2020, 102, .	3.2	13
65	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
66	Buildup of Fano resonances in the time domain in a double quantum dot Aharonov-Bohm interferometer. Physical Review B, 2018, 97, .	3.2	12
67	Non-Markovian suppression of charge qubit decoherence in the quantum point contact measurement. Journal of Chemical Physics, 2008, 129, 224106.	3.0	11
68	Dynamical Pauli effect on geometry. Journal of Physics G: Nuclear and Particle Physics, 1989, 15, L115-L121.	3.6	10
69	Dynamical symmetry breaking and mean-field chaotic motions in nuclear many-body systems. Physical Review C, 1991, 43, 1127-1139.	2.9	9
70	Charge-to-spin conversion of electron entanglement states and spin-interaction-free solid-state quantum computation. Physical Review B, 2007, 76, .	3.2	9
71	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
72	Nonperturbative renormalization of quantum thermodynamics from weak to strong couplings. Physical Review Research, 2022, 4, .	3.6	9

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73	Symmetry constrained Hartree-Fock-Bogoliubov theory with applications to the fermion dynamical symmetry model. Nuclear Physics A, 1989, 505, 7-25.	1.5	8
74	Quantum fluctuations in classical chaos. Physical Review A, 1990, 42, 3646-3649.	2.5	8
75	Wave-packet localization in nonlinear external potentials with dissipation. Physical Review A, 1995, 52, 1746-1749.	2.5	8
76	HEAVY QUARK EFFECTIVE THEORY ON THE LIGHT FRONT. International Journal of Modern Physics A, 1996, 11, 3297-3305.	1.5	8
77	Non-Markovian decoherence dynamics of strong-coupling hybrid quantum systems: A master equation approach. Physical Review A, 2021, 103, .	2.5	8
78	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
79	Decoherence induced by electron accumulation in a quantum measurement of charge qubits. Physical Review B, 2006, 74, .	3.2	7
80	Exact decoherence dynamics of 1/ <i>f</i> noise. New Journal of Physics, 2014, 16, 103010.	2.9	7
81	Decoherence dynamics of Majorana qubits under braiding operations. Physical Review B, 2020, 101, .	3.2	7
82	Chiral symmetry in light-front QCD. Journal of High Energy Physics, 2004, 2004, 045-045.	4.7	6
83	Single-electron turnstile pumping with high frequencies. Applied Physics Letters, 2011, 99, .	3.3	6
84	Coherent control of double-dot molecules using Aharonov-Bohm magnetic flux. Physical Review B, 2012, 86, .	3.2	6
85	Quantum coherence of the molecular states and their corresponding currents in nanoscale Aharonov-Bohm interferometers. Physical Review B, 2016, 94, .	3.2	5
86	Manipulating quantum coherence of charge states in interacting double-dot Aharonov–Bohm interferometers. New Journal of Physics, 2018, 20, 043043.	2.9	5
87	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
88	GEOMETRY IN QUANTUM NON-INTEGRABILITY. Modern Physics Letters A, 1993, 08, 1417-1425.	1.2	4
89	FIELD-THEORETIC REALIZATION OF HEAVY MESONS AS COMPOSITE PARTICLES. Modern Physics Letters A, 1998, 13, 2163-2171.	1.2	4
90	Implementing controlled-NOT gate based on free spin qubits with semiconductor quantum-dot array. Europhysics Letters, 2005, 71, 524-529.	2.0	4

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91	Precision control of charge coherence in parallel double dot systems through spin-orbit interaction. Journal of Chemical Physics, 2013, 139, 064706.	3.0	4
92	Exact dynamics and thermalization of open quantum systems coupled to reservoirs through particle exchanges. Physical Review A, 2020, 102, .	2.5	4
93	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
94	Effective field theory of heavy mesons. Physical Review D, 1998, 58, .	4.7	3
95	Nonperturbative determination of heavy meson bound states. Physical Review D, 1999, 60, .	4.7	3
96	Quantum NonlinearσModel for Arbitrary Spin Heisenberg Antiferromagnets. Physical Review Letters, 2005, 95, 167205.	7.8	3
97	Modeling Neuronal Systems as an Open Quantum System. Symmetry, 2021, 13, 1603.	2.2	3
98	Manipulating Majorana qubit states without braiding. Physical Review B, 2021, 104, .	3.2	3
99	Underlying pairing states in cuprate superconductors. Physical Review B, 2000, 61, R898-R901.	3.2	2
100	Nontrivial gauge symmetry in high Tc superconductivity. Physica C: Superconductivity and Its Applications, 2001, 364-365, 147-150.	1.2	1
101	SUM(2)×UC(1)gauge symmetry in high-Tcsuperconductivity. Physical Review B, 2002, 65, .	3.2	1
102	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
103	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
104	ZhangetÂal.Reply:. Physical Review Letters, 2015, 115, 168902.	7.8	1
105	The differential conductance tunnel spectroscopy in an analytical solvable two-terminal Majorana device. New Journal of Physics, 2022, 24, 073015.	2.9	1
106	Quantum-Classical Correspondence and Quantum Chaos. , 1992, , 66-107.		0
107	Influence of dynamical Pauli effect and dynamical symmetry breaking on quantum chaos. Physical Review C, 1998, 57, 637-647.	2.9	0
108	Coherent pairing state and high Tc superconductivity. Physica C: Superconductivity and Its Applications, 2000, 341-348, 313-314.	1.2	0

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109	Nonperturbative determination of heavy meson bound states. Nuclear Physics A, 2000, 663-664, 667c-670c.	1.5	0
110	QUANTUM COMPUTATION BASED ON ELECTRON SPIN QUBITS WITHOUT SPIN-SPIN INTERACTION. International Journal of Quantum Information, 2005, 03, 155-162.	1.1	0
111	Exact wave packet decoherence dynamics in a discrete spectrum environment. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 245501.	1.5	0
112	NONPERTURBATIVE DESCRIPTION OF B-MESONS. , 2000, , .		0
113	QUANTUM COMPUTATION BASED ON ELECTRON SPIN QUBITS WITHOUT SPIN-SPIN INTERACTION. , 2005, , .		0
114	Nobel Metal Nanoparticles in Bio-LED. , 0, , .		0
115	Classicalization and Coherent States. , 1994, , .		0
116	Controlling the dynamics of dissipationless localized bound states in open quantum systems with periodic driving fields. Physical Review A, 2021, 104, .	2.5	0