

# Bin Zhou

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4697530/publications.pdf>

Version: 2024-02-01

75  
papers

1,344  
citations

489802

18  
h-index

388640

36  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1297  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal dense coding and quantum phase transition in Ising-XXZ diamond chain. Physica A: Statistical Mechanics and Its Applications, 2022, 585, 126444.	1.2	1

2

#	ARTICLE	IF	CITATIONS
19	Floquet topological insulator phase in a Weyl semimetal thin film with disorder. <i>Physical Review B</i> , 2018, 98, .	1.1	21
20	Thermal quantum correlations of a spin-1/2 Ising-Heisenberg diamond chain with Dzyaloshinskii-Moriya interaction. <i>Chinese Physics B</i> , 2018, 27, 090306.	0.7	7
21	Quenching of Spin Polarization Switching in Organic Multiferroic Tunnel Junctions by Ferroelectric $\pi$ -Ailing-Channel in Organic Barrier. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 30614-30622.	4.0	14
22	Phase diagrams of Weyl semimetals with competing intraorbital and interorbital disorders. <i>Physical Review B</i> , 2018, 97, .	1.1	14
23	Spin Chern number and topological phase transition on the Lieb lattice with spin-orbit coupling. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 944-948.	0.9	16
24	Majorana zero modes in a ladder of density-modulated Kitaev superconductor chains. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 2426-2431.	0.9	7
25	Disorder-induced topological phase transitions on Lieb lattices. <i>Physical Review B</i> , 2017, 96, .	1.1	22
26	Thermal entanglement of the spin-1 Ising-Heisenberg diamond chain with biquadratic interaction. <i>Chinese Physics B</i> , 2017, 26, 070302.	0.7	2
27	Topological Anderson insulator phase in a Dirac-semimetal thin film. <i>Physical Review B</i> , 2017, 95, .	1.1	24
28	A high aspect ratio silicon-fin FinFET fabricated upon SOI wafer. <i>Solid-State Electronics</i> , 2016, 126, 46-50.	0.8	17
29	Topological phase transition in a ladder of the dimerized Kitaev superconductor chains. <i>Chinese Physics B</i> , 2016, 25, 107401.	0.7	6
30	Finite size effects on the helical edge states on the Lieb lattice. <i>Chinese Physics B</i> , 2016, 25, 067204.	0.7	12
31	Finite size effects on the quantum spin Hall state in HgTe quantum wells under two different types of boundary conditions. <i>Chinese Physics B</i> , 2015, 24, 067304.	0.7	3
32	Thermal entanglement of the Ising-Heisenberg diamond chain with Dzyaloshinskii-Moriya interaction. <i>Chinese Physics B</i> , 2015, 24, 110306.	0.7	3
33	Global entanglement in ground state of $\{Cu_3\}$ single-molecular magnet with magnetic field. <i>Chinese Physics B</i> , 2014, 23, 070302.	0.7	1
34	Finite size effects on helical edge states in HgTe quantum wells with the spin-orbit coupling due to bulk- and structure-inversion asymmetries. <i>Chinese Physics B</i> , 2014, 23, 037304.	0.7	4
35	Hybrid evolving clique-networks and their communicability. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 407, 198-203.	1.2	1
36	Random clique evolving network model and their communicability. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2014, 44, 299-304.	0.2	2

#	ARTICLE	IF	CITATIONS
37	Theory of magnetoelectric photocurrent generated by direct interband transitions in a semiconductor quantum well. <i>Physical Review B</i> , 2011, 83, .	1.1	3
38	Crossover from Majorana edge- to end-states in quasi-one-dimensional $p$ -wave superconductors. <i>Physical Review B</i> , 2011, 84, .	1.1	37
39	Spin-dependent Breit-Wigner and Fano resonances in photon-assisted electron transport through a semiconductor heterostructure. <i>Chinese Physics B</i> , 2011, 20, 067201.	0.7	2
40	PAIRWISE ENTANGLEMENT IN THE N-QUBIT XX MODEL WITH DZHALOSHINSKI-MORIYA INTERACTION AND MAGNETIC FIELD. <i>International Journal of Modern Physics B</i> , 2011, 25, 2135-2148.	1.0	3
41	Current-induced Spin Polarization in 2-Dimensional Hole Gas. , 2010, , .		0
42	Intrinsic anomalous Hall effect in spin-polarized two-dimensional electron gases with Dresselhaus spin-orbit interaction. <i>Physical Review B</i> , 2010, 81, .	1.1	6
43	Spin-bias driven magnetization reversal and nondestructive detection in a single molecular magnet. <i>Physical Review B</i> , 2009, 79, .	1.1	55
44	Finite Size Effects on Helical Edge States in a Quantum Spin-Hall System. <i>Physical Review Letters</i> , 2008, 101, 246807.	2.9	405
45	SPIN TRANSVERSE FORCE AND QUANTUM TRANSVERSE TRANSPORT. <i>International Journal of Modern Physics B</i> , 2008, 22, 76-81.	1.0	1
46	Current-induced spin polarization in a two-dimensional hole gas. <i>Physical Review B</i> , 2008, 77, .	1.1	18
47	Topological quantum phase transition and the Berry phase near the Fermi surface in hole-doped quantum wells. <i>Europhysics Letters</i> , 2007, 79, 47010.	0.7	12
48	Deduction of pure spin current from the linear and circular spin photogalvanic effect in semiconductor quantum wells. <i>Physical Review B</i> , 2007, 75, .	1.1	29
49	Thermal entanglement in a four-qubit Heisenberg spin model with external magnetic fields. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 362, 381-389.	0.9	19
50	Spin transverse force and intrinsic quantum transverse transport. <i>Physical Review B</i> , 2006, 73, .	1.1	32
51	THERMAL ENTANGLEMENT IN THE ANISOTROPIC XXZ MODEL UNDER AN INHOMOGENEOUS MAGNETIC FIELD. <i>International Journal of Modern Physics B</i> , 2006, 20, 2117-2127.	1.0	3
52	Quantum-classical crossover of the escape rate in the two-parameter doubly periodic potential. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 338, 439-445.	0.9	1
53	Quantum-classical crossover of the escape rate for ferric wheels with excess spin. <i>Physica B: Condensed Matter</i> , 2005, 357, 472-477.	1.3	1
54	Quantum-classical crossover for biaxial antiferromagnetic particles with a magnetic field along the hard axis. <i>Physical Review B</i> , 2004, 70, .	1.1	4

#	ARTICLE	IF	CITATIONS
55	Multiqubit maximally entangled states in the NMR model. Physical Review A, 2004, 70, .	1.0	5
56	STATE EVOLUTION AND INFORMATION PROCESSING IN Mn12 QUANTUM MAGNET. International Journal of Modern Physics B, 2004, 18, 2401-2408.	1.0	1
57	Calculation of tunnel splitting in a biaxial spin particle with an applied magnetic field. European Physical Journal B, 2004, 40, 87-92.	0.6	1
58	Structure evolution, magnetic domain structures and magnetic properties of CoPt/C nanocomposite films. Physica B: Condensed Matter, 2004, 351, 77-82.	1.3	2
59	Quantum-classical transition of the escape rate of uniaxial antiferromagnetic particles in an arbitrarily directed field. Physical Review B, 2003, 68, .	1.1	3
60	Quantum computing of molecular magnetMn12. Physical Review A, 2002, 66, .	1.0	45
61	Phase transition in quantum tunneling for a parameterized double-well potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 278, 243-248.	0.9	5
62	Quantum tunneling for the asymmetric double-well potential at finite energy. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 281, 105-112.	0.9	4
63	Quantum-classical crossover of the escape rate of a biaxial spin system with an applied magnetic field. Physica B: Condensed Matter, 2001, 301, 180-185.	1.3	4
64	Crossover from quantum tunneling to classical hopping of domain walls in ferromagnets. Physica B: Condensed Matter, 2001, 304, 141-146.	1.3	0
65	QUANTUM-CLASSICAL PHASE TRANSITION OF NUCLEATION RATE IN A ONE-DIMENSIONAL UNIAXIAL HEISENBERG MODEL WITH A MAGNETIC FIELD AT AN ARBITRARY DIRECTION. International Journal of Modern Physics B, 2001, 15, 3143-3151.	1.0	1
66	Quantum-classical transition of the escape rate in ferrimagnetic or antiferromagnetic particles with an applied magnetic field. Physical Review B, 2001, 64, .	1.1	8
67	Effect of dissipation on the decay-rate transition on a circle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 496, 218-225.	1.5	2
68	Bounces and the calculation of quantum tunneling effects for the asymmetric double-well potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 271, 26-30.	0.9	5
69	Calculation of tunnel splitting in a biaxial spin particle without instanton technique. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 278, 95-98.	0.9	1
70	TRANSFER OF PROTON AND ELECTRON IN HYDROGEN-BONDED CHAINS. Modern Physics Letters B, 2000, 14, 743-748.	1.0	0
71	The cooperative transport of electrons and protons in the alpha-helix polypeptide chain. Journal of Physics Condensed Matter, 2000, 12, 1649-1655.	0.7	0
72	Orientalional soliton defect in an inhomogeneous hydrogen-bonded chain. Chaos, Solitons and Fractals, 1998, 9, 429-436.	2.5	1

#	ARTICLE	IF	CITATIONS
73	Electrosoliton and lattice defects in hydrogen-bonded chains. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 7929-7935.	0.7	4
74	Ionic and bonding defects in hydrogen-bonded chains. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 236, 322-328.	0.9	5
75	Kink and bell-shape solitons in hydrogen-bonded chains. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 210, 307-312.	0.9	18