

Weiyi Zhang

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118
papers

1,747
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22
h-index

38
g-index

124
ext. papers

1,851
ext. citations

2.8
avg, IF

4.26
L-index

#	Paper	IF	Citations
118	Robust photonic band gap from tunable scatterers. <i>Physical Review Letters</i> , 2000 , 84, 2853-6	7.4	175
117	Two- and Three-Dimensional Ordered Structures of Hollow Silver Spheres Prepared by Colloidal Crystal Templating. <i>Advanced Materials</i> , 2004 , 16, 417-422	24	129
116	Preparation of monodisperse polystyrene spheres in aqueous alcohol system. <i>Materials Letters</i> , 2003 , 57, 4466-4470	3.3	108
115	Three-dimensional self-assembly of metal nanoparticles: Possible photonic crystal with a complete gap below the plasma frequency. <i>Physical Review B</i> , 2001 , 64,	3.3	94
114	Preparation of monodisperse silica particles with controllable size and shape. <i>Journal of Materials Research</i> , 2003 , 18, 649-653	2.5	85
113	Monte Carlo simulation of tunneling magnetoresistance in nanostructured materials. <i>Physical Review B</i> , 2004 , 69,	3.3	62
112	Competition of various spin states of LaCoO ₃ . <i>Physical Review B</i> , 1998 , 57, 10705-10709	3.3	60
111	Order parameter of superfluid 3He-B near surfaces. <i>Physical Review B</i> , 1987 , 36, 1987-1995	3.3	59
110	Possible magnetic ground state in the perovskite SrCoO ₃ . <i>Physical Review B</i> , 1998 , 57, 13655-13659	3.3	50
109	Preparation of Metallodielectric Composite Particles with Multishell Structure. <i>Langmuir</i> , 2004 , 20, 3042-3046	4.1	41
108	Novel application of a perturbed photonic crystal: High-quality filter. <i>Applied Physics Letters</i> , 1997 , 71, 2889-2891	3.4	38
107	The energy gap of r.f.-sputtered BaTiO ₃ thin films with different grain size. <i>Thin Solid Films</i> , 1996 , 274, 165-168	2.2	36
106	Localized and delocalized surface-plasmon-mediated light tunneling through monolayer hexagonal-close-packed metallic nanoshells. <i>Physical Review B</i> , 2009 , 80,	3.3	35
105	Photonic band gaps from metallo-dielectric spheres. <i>Physica B: Condensed Matter</i> , 2000 , 279, 150-154	2.8	35
104	Tuning the magnetic and transport properties of boron-nitride nanotubes via oxygen-doping. <i>Solid State Communications</i> , 2009 , 149, 486-490	1.6	33
103	Multiple scattering theory and its application to photonic band gap systems consisting of coated spheres. <i>Optics Express</i> , 2001 , 8, 203-8	3.3	33
102	Photonic band structures of a two-dimensional ionic dielectric medium. <i>Physical Review B</i> , 1996 , 54, 10280-10283	3.3	33

101	Tunneling density of states in 3He-B or in a possible p-wave superconductor. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988 , 130, 314-318	2.3	29
100	Optical properties of inverted opal photonic band gap crystals with stacking disorder. <i>Physical Review E</i> , 2003 , 67, 016612	2.4	27
99	Variation of the order parameter of 3He-B near a diffusely scattering boundary. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1985 , 109, 238-240	2.3	24
98	Identifying the superconducting pairing state of high-Tc oxides by the Josephson effect. <i>Physical Review B</i> , 1995 , 52, 3772-3775	3.3	23
97	Band structures and transmission spectra of piezoelectric superlattices. <i>Physical Review B</i> , 2005 , 71,	3.3	22
96	Magnetic structure of the layered perovskite LaSrCoO4. <i>Physical Review B</i> , 2000 , 62, 14140-14144	3.3	22
95	Tunable Fano resonance and magneto-optical response in magnetoplasmonic structure fabricated by pure ferromagnetic metals. <i>Physical Review B</i> , 2016 , 93,	3.3	20
94	Magnetism in germanium-doped boron-nitride nanotubes. <i>Chemical Physics Letters</i> , 2008 , 457, 169-173	2.5	20
93	First-principles study on the phase diagram and multiferroic properties of (SrCoO3)1/(SrTiO3)1 superlattices. <i>Scientific Reports</i> , 2014 , 4, 4564	4.9	18
92	Andreev scattering at a rough surface of 3He-B. <i>Physical Review B</i> , 1988 , 37, 3336-3343	3.3	17
91	Noncollinear interlayer exchange coupling caused by interface spin-orbit interaction. <i>Physical Review B</i> , 1997 , 55, 12561-12565	3.3	15
90	Intermediate spin state stabilized by the Jahn-Teller distortion in La1/2Ba1/2CoO3. <i>Physical Review B</i> , 2002 , 66,	3.3	14
89	Theoretical study on the spin-state transition in doped La2-xSrxCoO4. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 7425-7432	1.8	14
88	Theoretical study of electron-doped La1-xCexMnO3 compounds. <i>Physical Review B</i> , 2003 , 68,	3.3	13
87	Spin states of the Co ion in charge-ordered YBaCo2O5. <i>Physical Review B</i> , 2001 , 64,	3.3	13
86	Magnetic phase diagram of the one-band Hubbard Hamiltonian with application to high-Tc superconducting oxides. <i>Physical Review B</i> , 1992 , 45, 12478-12486	3.3	13
85	Study of the phonon-polaritons in piezomagnetic superlattices using a generalized transfer matrix method. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 9083-9092	1.8	11
84	Antiferromagnetism in electron- and hole-doped high-Tc superconductors. <i>Physical Review B</i> , 1992 , 45, 12487-12491	3.3	11

83	Theory for the density of states and antiferromagnetism in CuO ₂ planes of high-T _c superconductors. <i>Physical Review B</i> , 1990 , 42, 10192-10198	3.3	11
82	Transmission spectra in symmetrical Fibonacci superlattices composed of positive and negative refractive index materials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 351, 198-204	2.3	10
81	The photonic band structures of body-centred-tetragonal crystals composed of ionic or metal spheres. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 5307-5316	1.8	10
80	The photonic band structure of the two-dimensional hexagonal lattice of ionic dielectric media. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 541-549	1.8	9
79	Scaling and localization of polaritonic states in piezoelectric Fibonacci superlattices. <i>Physical Review B</i> , 2005 , 72,	3.3	9
78	Spin and orbital ordering in La _{2-x} Sr _{1+2x} Mn ₂ O ₇ compounds. <i>Physical Review B</i> , 2005 , 72,	3.3	9
77	Multiply coated microspheres. A platform for realizing fields-induced structural transition and photonic bandgap. <i>Pure and Applied Chemistry</i> , 2000 , 72, 309-315	2.1	9
76	Theoretical study of the density of states and magnetic properties of LaCoO ₃ . <i>Physical Review B</i> , 1998 , 57, 10710-10715	3.3	9
75	Corrugation-induced metal-semiconductor transition in single-wall carbon nanotubes with a small radius. <i>Physical Review B</i> , 2013 , 88,	3.3	8
74	Shear-strain gradient induced polarization reversal in ferroelectric BaTiO ₃ thin films: A first-principles total-energy study. <i>Physical Review B</i> , 2017 , 95,	3.3	8
73	The scattering properties of anisotropic dielectric spheres on electromagnetic waves. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 165-179	1.8	8
72	Theoretical study on magnetic structures of electron-doped La _{1-x} Ce _x CoO ₃ compounds. <i>Journal of Applied Physics</i> , 2004 , 95, 6822-6824	2.5	8
71	The transition from the ordered to the merohedral disordered phase in oxygenated solid C60. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996 , 223, 273-279	2.3	8
70	Comparative studies on the room-temperature ferroelectric and ferrimagnetic Ni ₃ TeO ₆ -type A ₂ FeMoO ₆ compounds (A = Sc, Lu). <i>Scientific Reports</i> , 2016 , 6, 20133	4.9	7
69	Magnetic ground state of RBaCo ₂ O _{5.5} (R=Tb,Gd) compounds. <i>Physical Review B</i> , 2003 , 67,	3.3	7
68	Role of Jahn-Teller effect in the charge ordered states of YBaM ₂ O ₅ (M=Co,Mn). <i>Physical Review B</i> , 2002 , 66,	3.3	7
67	No evident charge ordering in La _{1/2} Sr _{3/2} MnO ₄ . <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 4659-4667	7	
66	The effect of Sr doping on the magnetic properties of Co perovskite. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999 , 255, 354-360	2.3	7

65	Madelung energies, force constants, and low energy phonon density of states for K ₃ C ₆₀ . <i>Solid State Communications</i> , 1992 , 82, 679-683	1.6	7
64	Effective viscosity of ³ He-B at low temperatures. <i>Journal of Low Temperature Physics</i> , 1988 , 73, 483-494	1.3	7
63	VC and VMnC nanosheets with robust mechanical and thermal properties as promising materials for Li-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 1606-1613	3.6	6
62	Strain relaxation induced coexistence of ferromagnetism and antiferromagnetism in (110)-oriented LuMnO ₃ thin films on YAlO ₃ : A first-principles study. <i>Physical Review B</i> , 2018 , 97,	3.3	6
61	Theoretical study on the electronic and magnetic properties of double perovskite La _{2-x} Sr _x MnCoO ₆ (x = 0,1,2). <i>European Physical Journal B</i> , 2011 , 84, 357-364	1.2	6
60	Noncollinear interlayer coupling across a semiconductor spacer. <i>Physical Review B</i> , 1997 , 56, 14901-14904	3.3	6
59	A simple model of the giant magnetoresistance in doped LaMnO ₃ perovskite. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997 , 237, 90-94	2.3	6
58	Bifurcation in band-gap structures and extended states of piezoelectric Thue-Morse superlattices. <i>Physical Review B</i> , 2007 , 75,	3.3	6
57	Magnetic ground state of electron-doped La _{1-x} Ce _x CoO ₃ compounds. <i>Physical Review B</i> , 2003 , 68,	3.3	6
56	Nonlinear optical properties of perovskite YMnO ₃ studied by real-space recursion method. <i>Physical Review B</i> , 2000 , 61, 10664-10669	3.3	6
55	Effect of hopping between oxygen atoms on the metal-insulator transition in CuO ₂ planes of high-T _c superconductors. <i>Physical Review B</i> , 1991 , 43, 11426-11428	3.3	6
54	Narrowing and splitting of bands in the two-band Hubbard model for high T _c superconductors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990 , 148, 372-376	2.3	6
53	Nanocrystalline tin oxide: Possible origin of its weak ferromagnetism deduced from nuclear magnetic resonance and X-ray photoelectron spectroscopies. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 3138-3143	2.3	5
52	Spin-disorder-scattering-induced spectral-weight transfer and pseudogap in doped perovskite LaMnO ₃ . <i>Physical Review B</i> , 1997 , 56, 14547-14550	3.3	5
51	Theoretical study of the spin and orbital ordered states of LaBaMn ₂ O _{5.5} . <i>Physical Review B</i> , 2005 , 72,	3.3	5
50	Comparative studies on photonic band structures of diamond and hexagonal diamond using the multiple scattering method. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 741-748	1.8	5
49	How does the spin-state of Co ions affect the insulator-metal transition in BiA ₂ CoO (A = Ca, Sr, Ba)?. <i>Scientific Reports</i> , 2016 , 6, 38212	4.9	4
48	Multiband polaritonic filter made of piezoelectric superlattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 351, 192-197	2.3	4

47	The resonance-induced in-gap modes in photonic crystals composed of metal-coated dielectric spheres. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 9361-9370	1.8	4
46	On the doping induced gap states of high-Tc oxides due to oxygen disorder. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994 , 196, 113-119	2.3	4
45	Effect of lattice constant on pseudo Jahn-Teller polar distortion: Application to search for new multiferroic compounds. <i>Physical Review B</i> , 2016 , 94,	3.3	4
44	Improving Multiferroic Functionalities via Interface Engineering. <i>Journal of the Physical Society of Japan</i> , 2015 , 84, 044713	1.5	3
43	Spectroscopic study of Gd nanostructures quantum confined in Fe corrals. <i>Scientific Reports</i> , 2015 , 5, 12092	4.9	3
42	Spectroscopy of self-assembled one-dimensional atomic string: The role of step edge. <i>Applied Physics Letters</i> , 2013 , 103, 081608	3.4	3
41	An NMR investigation on the adducted hydrogen in weak ferromagnetic rhombohedral C60 polymers. <i>Chemical Physics Letters</i> , 2009 , 482, 66-71	2.5	3
40	NONRECIPROCAL MULTIFERROIC SUPERLATTICES WITH BROKEN PARITY SYMMETRY. <i>International Journal of Modern Physics B</i> , 2012 , 26, 1250021	1.1	3
39	Orbital-ordering-induced metal-insulator transition in PrRu4P12. <i>New Journal of Physics</i> , 2008 , 10, 093020.9	2.9	3
38	Effects of interface roughness on the current-phase relation in planar junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987 , 125, 141-146	2.3	3
37	Metallic wire structures under an intense electromagnetic field. <i>Journal of Applied Physics</i> , 2009 , 106, 074904	2.5	2
36	A generalized equivalent circuit theory for the electric and magnetic resonances of metallic wire networks. <i>Journal of Applied Physics</i> , 2009 , 105, 113121	2.5	2
35	A comparative study of Heisenberg-like models with and without internal spin fluctuations. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 5643-5653	1.8	2
34	Magnetization and susceptibility of the two-spin Heisenberg model. <i>Solid State Communications</i> , 1997 , 102, 35-40	1.6	2
33	Trifurcation of band-gap structure and coexistence of lattice-like states and critical states in piezoelectric period-doubling superlattices. <i>European Physical Journal B</i> , 2007 , 59, 179-184	1.2	2
32	Effect of electron doping on the magnetic structure of the n=3 Ruddlesden-Popper compound Ca ₄ LaxMn3O10 (0<x<0.2). <i>Physical Review B</i> , 2007 , 75,	3.3	2
31	Interface roughness and proximity effect on a c-axis Josephson junction between s-wave and d-wave superconductors. <i>Physical Review B</i> , 2002 , 65,	3.3	2
30	Self-consistent study of the Josephson effect for the d-wave superconductor-insulator-superconductor junction. <i>Physical Review B</i> , 1995 , 52, 12538-12540	3.3	2

29	Magnetic textures of the three-band Hubbard Hamiltonian and their effect on the antiferromagnetic state. <i>Physical Review B</i> , 1993 , 47, 8030-8038	3.3	2
28	Theoretical investigation on the electronic and thermoelectric properties of RuSb ₂ Te compound. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	1
27	The bandgap structures and recovery rules of generalized n -component Fibonacci piezoelectric superlattices. <i>Solid State Communications</i> , 2011 , 151, 634-638	1.6	1
26	A Field Tunable Multichannel Microwave Delay-Line Using a Piezoelectric-Piezomagnetic Superlattice. <i>Chinese Physics Letters</i> , 2012 , 29, 114201	1.8	1
25	Effects of Interface Scattering on the Electronic Conductivity of Bimetallic Films. <i>International Journal of Modern Physics B</i> , 1997 , 11, 2393-2404	1.1	1
24	Temperature dependence of noncollinear interlayer coupling. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997 , 230, 223-228	2.3	1
23	Theoretical study on the spin and orbital orderings in Ruddlesden-Popper compound La _{3-3x} Ca _{1+3x} Mn ₃ O ₁₀ (0 ≤ x ≤ 1). <i>European Physical Journal B</i> , 2008 , 66, 321-327	1.2	1
22	Photonic band gaps of AB ₃ and B ₃ structures of metallodielectric spheres. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 8489-8496	1.8	1
21	Order parameters and current-phase relations in 3HeB Josephson junctions through a porous layer. <i>Physical Review B</i> , 2001 , 64,	3.3	1
20	Theoretical study of the paramagnetic density of states of YBaCo ₂ O ₅ . <i>Physical Review B</i> , 2002 , 65,	3.3	1
19	Interplay among charge, spin, and orbital ordering in doped LaMnO ₃ . <i>Physical Review B</i> , 2000 , 62, 12229-12234	3.3	1
18	Enhancing spin-orbit coupling in high-mobility graphene by introducing chiral space curvature. <i>New Journal of Physics</i> , 2021 , 23, 043031	2.9	1
17	Characterization of scrutinyite SnO ₂ and investigation of the transformation with ¹¹⁹ Sn NMR and complex impedance method. <i>AIP Advances</i> , 2018 , 8, 125226	1.5	1
16	Bloch Band Structures of a Pair of Interacting Electrons in Graphene. <i>Journal of the Physical Society of Japan</i> , 2021 , 90, 104702	1.5	1
15	Bloch's band structures of a pair of interacting electrons in simple one- and two-dimensional lattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 414, 127634	2.3	1
14	Theory of magnetic textures in high-T _c superconductors: electron versus hole doping dependence. <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 1335-1349	1.8	0
13	Orbitronic effect on the magnetic reconstruction of monocell SrMnO ₃ on ferroelectric BaTiO ₃ substrate. <i>Journal of Applied Physics</i> , 2018 , 124, 014101	2.5	
12	Two types of meta-crystals for IV group elements: Density functional theory calculations. <i>Physica B: Condensed Matter</i> , 2013 , 410, 17-21	2.8	

- 11 THE BAND-GAP AND TRUE BAND-GAP IN NOMINALLY METALLIC CARBON NANOTUBES: THE TIGHT-BINDING STUDY ON CORRUGATION EFFECT. *International Journal of Modern Physics B*, **2014**, 28, 1450018 1.1
- 10 Anisotropic localization behavior of graphene in the presence of diagonal and off-diagonal disorders. *Chinese Physics B*, **2013**, 22, 127201 1.2
- 9 Self-consistent study of the Josephson effect for SNS junction with mixed s + d-wave superconductors. *Solid State Communications*, **1998**, 107, 243-247 1.6
- 8 Properties of a Unique Type of Critical State in the Two-Dimensional Two-Band Anderson Lattice Model in the Presence of Site-Selective Disorder. *Journal of the Physical Society of Japan*, **2008**, 77, 124705 1.5
- 7 Localization and Scaling Behavior of Polariton-Gap in Fibonacci and Symmetric Fibonacci-Class Piezomagnetic Superlattices. *Journal of the Physical Society of Japan*, **2008**, 77, 034701 1.5
- 6 Study on the spin-states of cobalt-based double-layer perovskite Sr₂Y_{0.5}Ca_{0.5}Co₂O₇. *European Physical Journal B*, **2008**, 61, 457-463 1.2
- 5 The photonic band structure of macro-'ionic' crystal. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2000**, 273, 203-207 2.3
- 4 The effect of interplane hopping on the neutron scattering spectrum of high T_c superconducting oxides. *Solid State Communications*, **1995**, 95, 605-607 1.6
- 3 Order parameter and exchange field of superfluid ³He-B near magnetically active surfaces. *Physical Review B*, **1994**, 49, 15864-15869 3.3
- 2 Andreev Scattering at Rough Surfaces **1988**, 187-196
- 1 Asymmetrical Magnetic Properties of Electron and Hole Doped High- T_c Superconductors. *Progress of Theoretical Physics Supplement*, **2013**, 106, 43-50