

# Weiyi Zhang

## List of Publications by Year in Descending Order

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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.

118  
papers

1,747  
citations

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	Enhancing spin-orbit coupling in high-mobility graphene by introducing chiral space curvature. <i>New Journal of Physics</i> , <b>2021</b> , 23, 043031	2.9	1
117	Bloch's Band Structures of a Pair of Interacting Electrons in Graphene. <i>Journal of the Physical Society of Japan</i> , <b>2021</b> , 90, 104702	1.5	1
116	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> , <b>2021</b> , 414, 127634	2.3	1
115	VC and VMnC nanosheets with robust mechanical and thermal properties as promising materials for Li-ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 1606-1613	3.6	6
114	Strain relaxation induced coexistence of ferromagnetism and antiferromagnetism in (110)-oriented LuMnO <sub>3</sub> thin films on YAlO <sub>3</sub> : A first-principles study. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	6
113	Orbitronic effect on the magnetic reconstruction of monocell SrMnO <sub>3</sub> on ferroelectric BaTiO <sub>3</sub> substrate. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 014101	2.5	
112	Characterization of scrutinyite SnO <sub>2</sub> and investigation of the transformation with <sup>119</sup> Sn NMR and complex impedance method. <i>AIP Advances</i> , <b>2018</b> , 8, 125226	1.5	1
111	Shear-strain gradient induced polarization reversal in ferroelectric BaTiO <sub>3</sub> thin films: A first-principles total-energy study. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	8
110	Comparative studies on the room-temperature ferroelectric and ferrimagnetic Ni <sub>3</sub> TeO <sub>6</sub> -type A <sub>2</sub> FeMoO <sub>6</sub> compounds (A = Sc, Lu). <i>Scientific Reports</i> , <b>2016</b> , 6, 20133	4.9	7
109	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> , <b>2016</b> , 380, 3138-3143	2.3	5
108	Tunable Fano resonance and magneto-optical response in magnetoplasmonic structure fabricated by pure ferromagnetic metals. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	20
107	How does the spin-state of Co ions affect the insulator-metal transition in BiACoO (A = Ca, Sr, Ba)?. <i>Scientific Reports</i> , <b>2016</b> , 6, 38212	4.9	4
106	Effect of lattice constant on pseudo Jahn-Teller polar distortion: Application to search for new multiferroic compounds. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	4
105	Improving Multiferroic Functionalities via Interface Engineering. <i>Journal of the Physical Society of Japan</i> , <b>2015</b> , 84, 044713	1.5	3
104	Spectroscopic study of Gd nanostructures quantum confined in Fe corrals. <i>Scientific Reports</i> , <b>2015</b> , 5, 12092	4.9	3
103	First-principles study on the phase diagram and multiferroic properties of (SrCoO <sub>3</sub> ) <sub>1</sub> /(SrTiO <sub>3</sub> ) <sub>1</sub> superlattices. <i>Scientific Reports</i> , <b>2014</b> , 4, 4564	4.9	18
102	THE BAND-GAP AND TRUE BAND-GAP IN NOMINALLY METALLIC CARBON NANOTUBES: THE TIGHT-BINDING STUDY ON CORRUGATION EFFECT. <i>International Journal of Modern Physics B</i> , <b>2014</b> , 28, 1450018	1.1	

101	Corrugation-induced metal-semiconductor transition in single-wall carbon nanotubes with a small radius. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	8
100	Theoretical investigation on the electronic and thermoelectric properties of RuSb <sub>2</sub> Te compound. <i>European Physical Journal B</i> , <b>2013</b> , 86, 1	1.2	1
99	Two types of meta-crystals for IV group elements: Density functional theory calculations. <i>Physica B: Condensed Matter</i> , <b>2013</b> , 410, 17-21	2.8	
98	Anisotropic localization behavior of graphene in the presence of diagonal and off-diagonal disorders. <i>Chinese Physics B</i> , <b>2013</b> , 22, 127201	1.2	
97	Spectroscopy of self-assembled one-dimensional atomic string: The role of step edge. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 081608	3.4	3
96	Asymmetrical Magnetic Properties of Electron and Hole Doped High- T <sub>c</sub> Superconductors. <i>Progress of Theoretical Physics Supplement</i> , <b>2013</b> , 106, 43-50		
95	NONRECIPROCAL MULTIFERROIC SUPERLATTICES WITH BROKEN PARITY SYMMETRY. <i>International Journal of Modern Physics B</i> , <b>2012</b> , 26, 1250021	1.1	3
94	A Field Tunable Multichannel Microwave Delay-Line Using a Piezoelectric-Piezomagnetic Superlattice. <i>Chinese Physics Letters</i> , <b>2012</b> , 29, 114201	1.8	1
93	Theoretical study on the electronic and magnetic properties of double perovskite La <sub>2-x</sub> Sr <sub>x</sub> MnCoO <sub>6</sub> (x = 0,1,2). <i>European Physical Journal B</i> , <b>2011</b> , 84, 357-364	1.2	6
92	The bandgap structures and recovery rules of generalized -component Fibonacci piezoelectric superlattices. <i>Solid State Communications</i> , <b>2011</b> , 151, 634-638	1.6	1
91	Metallic wire structures under an intense electromagnetic field. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 074904	2.5	2
90	A generalized equivalent circuit theory for the electric and magnetic resonances of metallic wire networks. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 113121	2.5	2
89	Tuning the magnetic and transport properties of boron-nitride nanotubes via oxygen-doping. <i>Solid State Communications</i> , <b>2009</b> , 149, 486-490	1.6	33
88	An NMR investigation on the adducted hydrogen in weak ferromagnetic rhombohedral C60 polymers. <i>Chemical Physics Letters</i> , <b>2009</b> , 482, 66-71	2.5	3
87	Localized and delocalized surface-plasmon-mediated light tunneling through monolayer hexagonal-close-packed metallic nanoshells. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	35
86	Orbital-ordering-induced metal-insulator transition in PrRu <sub>4</sub> P <sub>12</sub> . <i>New Journal of Physics</i> , <b>2008</b> , 10, 093020.	2.9	3
85	Properties of a Unique Type of Critical State in the Two-Dimensional Two-Band Anderson Lattice Model in the Presence of Site-Selective Disorder. <i>Journal of the Physical Society of Japan</i> , <b>2008</b> , 77, 124705	1.5	15
84	Localization and Scaling Behavior of Polariton-Gap in Fibonacci and Symmetric Fibonacci-Class Piezomagnetic Superlattices. <i>Journal of the Physical Society of Japan</i> , <b>2008</b> , 77, 034701	1.5	

83	Magnetism in germanium-doped boron-nitride nanotubes. <i>Chemical Physics Letters</i> , <b>2008</b> , 457, 169-173	2.5	20
82	Study on the spin-states of cobalt-based double-layer perovskite Sr <sub>2</sub> Y <sub>0.5</sub> Ca <sub>0.5</sub> Co <sub>2</sub> O <sub>7</sub> . <i>European Physical Journal B</i> , <b>2008</b> , 61, 457-463	1.2	
81	Theoretical study on the spin and orbital orderings in Ruddlesden-Popper compound La <sub>3-3x</sub> Ca <sub>1+3x</sub> Mn <sub>3</sub> O <sub>10</sub> (0 ≤ x ≤ 1). <i>European Physical Journal B</i> , <b>2008</b> , 66, 321-327	1.2	1
80	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> , <b>2007</b> , 59, 179-184	1.2	2
79	Effect of electron doping on the magnetic structure of the n=3 Ruddlesden-Popper compound Ca <sub>4-4x</sub> La <sub>x</sub> Mn <sub>3</sub> O <sub>10</sub> (0 ≤ x ≤ 0.2). <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	2
78	Bifurcation in band-gap structures and extended states of piezoelectric Thue-Morse superlattices. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	6
77	Study of the phonon polaritons in piezomagnetic superlattices using a generalized transfer matrix method. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 9083-9092	1.8	11
76	Multiband polaritonic filter made of piezoelectric superlattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2006</b> , 351, 192-197	2.3	4
75	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> , <b>2006</b> , 351, 198-204	2.3	10
74	Band structures and transmission spectra of piezoelectric superlattices. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	22
73	Theoretical study of the spin and orbital ordered states of LaBaMn <sub>2</sub> O <sub>5.5</sub> . <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	5
72	Scaling and localization of polaritonic states in piezoelectric Fibonacci superlattices. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	9
71	Spin and orbital ordering in La <sub>2-2x</sub> Sr <sub>1+2x</sub> Mn <sub>2</sub> O <sub>7</sub> compounds. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	9
70	The scattering properties of anisotropic dielectric spheres on electromagnetic waves. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, 165-179	1.8	8
69	Comparative studies on photonic band structures of diamond and hexagonal diamond using the multiple scattering method. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, 741-748	1.8	5
68	Theoretical study on magnetic structures of electron-doped La <sub>1-x</sub> Ce <sub>x</sub> CoO <sub>3</sub> compounds. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 6822-6824	2.5	8
67	Two- and Three-Dimensional Ordered Structures of Hollow Silver Spheres Prepared by Colloidal Crystal Templating. <i>Advanced Materials</i> , <b>2004</b> , 16, 417-422	24	129
66	Monte Carlo simulation of tunneling magnetoresistance in nanostructured materials. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	62

65	Preparation of Metallodielectric Composite Particles with Multishell Structure. <i>Langmuir</i> , <b>2004</b> , 20, 3042-3046	4.1	41
64	Preparation of monodisperse silica particles with controllable size and shape. <i>Journal of Materials Research</i> , <b>2003</b> , 18, 649-653	2.5	85
63	Preparation of monodisperse polystyrene spheres in aqueous alcohol system. <i>Materials Letters</i> , <b>2003</b> , 57, 4466-4470	3.3	108
62	Magnetic ground state of electron-doped $\text{La}_{1-x}\text{Ce}_x\text{CoO}_3$ compounds. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	6
61	Magnetic ground state of $\text{RBaCo}_2\text{O}_{5.5}$ (R=Tb,Gd) compounds. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	7
60	Optical properties of inverted opal photonic band gap crystals with stacking disorder. <i>Physical Review E</i> , <b>2003</b> , 67, 016612	2.4	27
59	Theoretical study of electron-doped $\text{La}_{1-x}\text{Ce}_x\text{MnO}_3$ compounds. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	13
58	Role of Jahn-Teller effect in the charge ordered states of $\text{YBaM}_2\text{O}_5$ (M=Co,Mn). <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	7
57	Theoretical study of the paramagnetic density of states of $\text{YBaCo}_2\text{O}_5$ . <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	1
56	Interface roughness and proximity effect on a c-axis Josephson junction between s-wave and d-wave superconductors. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	2
55	Intermediate spin state stabilized by the Jahn-Teller distortion in $\text{La}_{1/2}\text{Ba}_{1/2}\text{CoO}_3$ . <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	14
54	No evident charge ordering in $\text{La}_{1/2}\text{Sr}_{3/2}\text{MnO}_4$ . <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 4659-4667	3.3	7
53	Photonic band gaps of $\text{AB}_3$ and $\text{B}_3$ structures of metallodielectric spheres. <i>Journal of Physics Condensed Matter</i> , <b>2001</b> , 13, 8489-8496	1.8	1
52	Order parameters and current-phase relations in $3\text{HeB}$ Josephson junctions through a porous layer. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	1
51	Spin states of the Co ion in charge-ordered $\text{YBaCo}_2\text{O}_5$ . <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	13
50	Three-dimensional self-assembly of metal nanoparticles: Possible photonic crystal with a complete gap below the plasma frequency. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	94
49	Multiple scattering theory and its application to photonic band gap systems consisting of coated spheres. <i>Optics Express</i> , <b>2001</b> , 8, 203-8	3.3	33
48	Multiply coated microspheres. A platform for realizing fields-induced structural transition and photonic bandgap. <i>Pure and Applied Chemistry</i> , <b>2000</b> , 72, 309-315	2.1	9

47	Photonic band gaps from metallo-dielectric spheres. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 279, 150-154	2.8	35
46	The photonic band structure of macro-‘ionic’ crystal. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2000</b> , 273, 203-207	2.3	
45	The photonic band structures of body-centred-tetragonal crystals composed of ionic or metal spheres. <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, 5307-5316	1.8	10
44	Nonlinear optical properties of perovskite YMnO <sub>3</sub> studied by real-space recursion method. <i>Physical Review B</i> , <b>2000</b> , 61, 10664-10669	3.3	6
43	Robust photonic band gap from tunable scatterers. <i>Physical Review Letters</i> , <b>2000</b> , 84, 2853-6	7.4	175
42	Interplay among charge, spin, and orbital ordering in doped LaMnO <sub>3</sub> . <i>Physical Review B</i> , <b>2000</b> , 62, 12229-12234	3.3	1
41	Theoretical study on the spin-state transition in doped La <sub>2-x</sub> Sr <sub>x</sub> CoO <sub>4</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, 7425-7432	1.8	14
40	The resonance-induced in-gap modes in photonic crystals composed of metal-coated dielectric spheres. <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, 9361-9370	1.8	4
39	Magnetic structure of the layered perovskite LaSrCoO <sub>4</sub> . <i>Physical Review B</i> , <b>2000</b> , 62, 14140-14144	3.3	22
38	The effect of Sr doping on the magnetic properties of Co perovskite. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1999</b> , 255, 354-360	2.3	7
37	Self-consistent study of the Josephson effect for SNS junction with mixed s + d-wave superconductors. <i>Solid State Communications</i> , <b>1998</b> , 107, 243-247	1.6	
36	Possible magnetic ground state in the perovskite SrCoO <sub>3</sub> . <i>Physical Review B</i> , <b>1998</b> , 57, 13655-13659	3.3	50
35	Competition of various spin states of LaCoO <sub>3</sub> . <i>Physical Review B</i> , <b>1998</b> , 57, 10705-10709	3.3	60
34	Theoretical study of the density of states and magnetic properties of LaCoO <sub>3</sub> . <i>Physical Review B</i> , <b>1998</b> , 57, 10710-10715	3.3	9
33	A comparative study of Heisenberg-like models with and without internal spin fluctuations. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 5643-5653	1.8	2
32	The photonic band structure of the two-dimensional hexagonal lattice of ionic dielectric media. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 541-549	1.8	9
31	Noncollinear interlayer coupling across a semiconductor spacer. <i>Physical Review B</i> , <b>1997</b> , 56, 14901-14904	3.3	6
30	Spin-disorder-scattering-induced spectral-weight transfer and pseudogap in doped perovskite LaMnO <sub>3</sub> . <i>Physical Review B</i> , <b>1997</b> , 56, 14547-14550	3.3	5

29	Novel application of a perturbed photonic crystal: High-quality filter. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 2889-2891	3.4	38
28	Effects of Interface Scattering on the Electronic Conductivity of Bimetallic Films. <i>International Journal of Modern Physics B</i> , <b>1997</b> , 11, 2393-2404	1.1	1
27	Noncollinear interlayer exchange coupling caused by interface spin-orbit interaction. <i>Physical Review B</i> , <b>1997</b> , 55, 12561-12565	3.3	15
26	Temperature dependence of noncollinear interlayer coupling. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1997</b> , 230, 223-228	2.3	1
25	A simple model of the giant magnetoresistance in doped LaMnO <sub>3</sub> perovskite. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1997</b> , 237, 90-94	2.3	6
24	Magnetization and susceptibility of the two-spin Heisenberg model. <i>Solid State Communications</i> , <b>1997</b> , 102, 35-40	1.6	2
23	The energy gap of r.f.-sputtered BaTiO <sub>3</sub> thin films with different grain size. <i>Thin Solid Films</i> , <b>1996</b> , 274, 165-168	2.2	36
22	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> , <b>1996</b> , 223, 273-279	2.3	8
21	Photonic band structures of a two-dimensional ionic dielectric medium. <i>Physical Review B</i> , <b>1996</b> , 54, 10280-10283	3.3	33
20	The effect of interplane hopping on the neutron scattering spectrum of high T <sub>c</sub> superconducting oxides. <i>Solid State Communications</i> , <b>1995</b> , 95, 605-607	1.6	
19	Identifying the superconducting pairing state of high-T <sub>c</sub> oxides by the Josephson effect. <i>Physical Review B</i> , <b>1995</b> , 52, 3772-3775	3.3	23
18	Self-consistent study of the Josephson effect for the d-wave superconductor-insulator-superconductor junction. <i>Physical Review B</i> , <b>1995</b> , 52, 12538-12540	3.3	2
17	Theory of magnetic textures in high-T <sub>c</sub> superconductors: electron versus hole doping dependence. <i>Journal of Physics Condensed Matter</i> , <b>1995</b> , 7, 1335-1349	1.8	0
16	Order parameter and exchange field of superfluid <sup>3</sup> He-B near magnetically active surfaces. <i>Physical Review B</i> , <b>1994</b> , 49, 15864-15869	3.3	
15	On the doping induced gap states of high-T <sub>c</sub> oxides due to oxygen disorder. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1994</b> , 196, 113-119	2.3	4
14	Magnetic textures of the three-band Hubbard Hamiltonian and their effect on the antiferromagnetic state. <i>Physical Review B</i> , <b>1993</b> , 47, 8030-8038	3.3	2
13	Magnetic phase diagram of the one-band Hubbard Hamiltonian with application to high-T <sub>c</sub> superconducting oxides. <i>Physical Review B</i> , <b>1992</b> , 45, 12478-12486	3.3	13
12	Antiferromagnetism in electron- and hole-doped high-T <sub>c</sub> superconductors. <i>Physical Review B</i> , <b>1992</b> , 45, 12487-12491	3.3	11

11	Madelung energies, force constants, and low energy phonon density of states for K3C60. <i>Solid State Communications</i> , <b>1992</b> , 82, 679-683	1.6	7
10	Effect of hopping between oxygen atoms on the metal-insulator transition in CuO <sub>2</sub> planes of high-T <sub>c</sub> superconductors. <i>Physical Review B</i> , <b>1991</b> , 43, 11426-11428	3.3	6
9	Narrowing and splitting of bands in the two-band Hubbard model for high T <sub>c</sub> superconductors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1990</b> , 148, 372-376	2.3	6
8	Theory for the density of states and antiferromagnetism in CuO <sub>2</sub> planes of high-T <sub>c</sub> superconductors. <i>Physical Review B</i> , <b>1990</b> , 42, 10192-10198	3.3	11
7	Effective viscosity of <sup>3</sup> He-B at low temperatures. <i>Journal of Low Temperature Physics</i> , <b>1988</b> , 73, 483-494	1.3	7
6	Tunneling density of states in <sup>3</sup> He-B or in a possible p-wave superconductor. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1988</b> , 130, 314-318	2.3	29
5	Andreev scattering at a rough surface of <sup>3</sup> He-B. <i>Physical Review B</i> , <b>1988</b> , 37, 3336-3343	3.3	17
4	Andreev Scattering at Rough Surfaces <b>1988</b> , 187-196		
3	Order parameter of superfluid <sup>3</sup> He-B near surfaces. <i>Physical Review B</i> , <b>1987</b> , 36, 1987-1995	3.3	59
2	Effects of interface roughness on the current-phase relation in planar junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1987</b> , 125, 141-146	2.3	3
1	Variation of the order parameter of <sup>3</sup> He-B near a diffusely scattering boundary. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1985</b> , 109, 238-240	2.3	24