

Wei-Guo Yin

List of Publications by Year in descending order

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3,049
citations

279701

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times ranked

4135
citing authors

#	ARTICLE	IF	CITATIONS
1	Large dielectric constant and Maxwell-Wagner relaxation in $\text{Bi}_2\text{Cu}_3\text{Ti}_4\text{O}_{12}$. Physical Review B, 2004, 70, .	1.1	474
2	Ferro-Orbital Order and Strong Magnetic Anisotropy in the Parent Compounds of Iron-Pnictide Superconductors. Physical Review Letters, 2009, 103, 267001.	2.9	358
3	IrO_2 . Physical Review Letters, 2009, 103, 267001.	1.1	300
4	Dielectric permittivity and electric modulus in $\text{Bi}_2\text{Ti}_4\text{O}_{11}$. Journal of Chemical Physics, 2003, 119, 2812-2819.	1.2	246
5	Unified Picture for Magnetic Correlations in Iron-Based Superconductors. Physical Review Letters, 2010, 105, 107004.	2.9	164
6	High-Energy Kink Observed in the Electron Dispersion of High-Temperature Cuprate Superconductors. Physical Review Letters, 2007, 98, 167003.	2.9	129
7	Enhanced superconducting transition temperature in $\text{FeSe}_{0.5}\text{Te}_{0.5}$ thin films. Applied Physics Letters, 2009, 95, .	1.5	101
8	Orbital Ordering in LaMnO_3 : Electron-Electron versus Electron-Lattice Interactions. Physical Review Letters, 2006, 96, 116405.	2.9	94
9	Testing the Validity of the Strong Spin-Orbit-Coupling Limit for Octahedrally Coordinated Iridate Compounds in a Model System $\text{Sr}_3\text{Cu}_2\text{O}_7$. Physical Review Letters, 2012, 109, 157401.	2.9	92
10	Simulations of ferroelectric polymer film polarization: The role of dipole interactions. Physical Review B, 2004, 69, .	1.1	65
11	One-Fe versus Two-Fe Brillouin Zone of Fe-Based Superconductors: Creation of the Electron Pockets by Translational Symmetry Breaking. Physical Review Letters, 2011, 107, 257001.	2.9	53
12	Iron-Based Superconductivity. Springer Series in Materials Science, 2015, , .	0.4	44
13	Local orbital degeneracy lifting as a precursor to an orbital-selective Peierls transition. Nature Communications, 2019, 10, 3638.	5.8	42
14	Ferromagnetic Exchange Anisotropy from Antiferromagnetic Superexchange in the Mixed $\text{Sr}_3\text{Cu}_2\text{O}_7$ Compound. Physical Review Letters, 2013, 111, 057202.	2.9	41
15	Coexistence of Gapless Excitations and Commensurate Charge-Density Wave in the 2H Transition Metal Dichalcogenides. Physical Review Letters, 2006, 96, 026406.	2.9	36
16	Origin of the Extended Van Hove region in Cuprate Superconductors. Physical Review Letters, 1998, 81, 2534-2537.	2.9	33
17	Structural, magnetic, and electrical properties of Li_2IrO_4 . Physical Review Letters, 2009, 103, 267001.	1.1	32
18	Dichotomy in ultrafast atomic dynamics as direct evidence of polaron formation in manganites. Npj Quantum Materials, 2016, 1, .	1.8	31

#	ARTICLE	IF	CITATIONS
19	Evidence for Short-Range-Ordered Charge Stripes Far above the Charge-Ordering Transition in $\text{La}_{1.67}\text{Sr}$. Physical Review Letters, 2013, 111, 096404.	2.9	30
20	Giant Switchable Rashba Effect in Oxide Heterostructures. Advanced Materials Interfaces, 2015, 2, 1400445.	1.9	29
21	Structure and physical properties of the layered iron oxychalcogenide $\text{BaFe}_2\text{Se}_2\text{O}$. Physical Review B, 2012, 86, .	1.1	26
22	Intra-unit-cell nematic charge order in the titanium-oxypnictide family of superconductors. Nature Communications, 2014, 5, 5761.	5.8	25
23	Interfacial Coupling-Induced Ferromagnetic Insulator Phase in Manganite Film. Nano Letters, 2016, 16, 4174-4180.	4.5	24
24	Strong Coupling of the Iron-Quadrupole and Anion-Dipole Polarizations in BaMoFe . Physical Review B, 2017, 96, .	2.9	23
25	Impurity effects on the spin excitation spectra in ad-wave superconductor. Physical Review B, 1998, 58, 2895-2899.	1.1	22
26	Magnetotransport properties of MoP_2 . Physical Review B, 2017, 96, .	1.1	22
27	Charge ordering in stoichiometric FeTe: Scanning tunneling microscopy and spectroscopy. Physical Review B, 2016, 93, .	1.1	21
28	Width-Tuned Magnetic Order Oscillation on Zigzag Edges of Honeycomb Nanoribbons. Nano Letters, 2017, 17, 4400-4404.	4.5	21
29	Photoinduced Dirac semimetal in ZrTe5. Npj Quantum Materials, 2020, 5, .	1.8	21
30	Tuning the in-plane electron behavior in high- T_c cuprate superconductors via apical atoms: A first-principles Wannier-states analysis. Physical Review B, 2009, 79, .	1.1	20
31	Magnetic-Field Control of Topological Electronic Response near Room Temperature in Correlated Kagome Magnets. Physical Review Letters, 2019, 123, 196604.	2.9	20
32	Theoretical study on the optical properties of polyvinylidene fluoride crystal. Journal of Physics Condensed Matter, 2003, 15, 3805-3811.	0.7	19
33	Local structural evidence for strong electronic correlations in spinel LiRh_2O_4 . Physical Review B, 2013, 88, .	1.1	19
34	Magnetic mixed valent semimetal EuZnSb with Dirac states in the band structure. Physical Review Research, 2020, 2, .	1.3	19
35	Single Hole Motion in LaMnO_3 . Physical Review Letters, 2001, 87, 047204.	2.9	18
36	Charge ordering in half-doped manganites: Weak charge disproportion and leading mechanisms. Europhysics Letters, 2010, 89, 27008.	0.7	18

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37	Insulating magnetism in vacancy-ordered $K0.8Fe1.6Se2$. Physical Review B, 2012, 86, .	1.1	18
38	Electronic properties of $NaCdF3$: $\hat{\epsilon}$, $\hat{\epsilon}$, A first-principles prediction. Physical Review B, 2004, 69, .	1.1	17
39	Topological Phase Transition and Phonon-Space Dirac Topology Surfaces in $ZrTe5$. Physical Review Letters, 2021, 126, 016401.	2.9	16
40	Superionicity in $Na3PO4$: A molecular dynamics simulation. Physical Review B, 2004, 70, .	1.1	15
41	Anisotropy of the superconducting transition temperature under uniaxial pressure. Physical Review B, 2001, 64, .	1.1	14
42	Absence of Dirac states in $BaZnBi2$ induced by spin-orbit coupling. Physical Review B, 2018, 97, .	1.1	13
43	Two-orbital degeneracy lifted local precursor to a metal-insulator transition in $MgTi2O4$. Physical Review B, 2020, 102, .	1.1	13
44	Algorithm for finding two-dimensional site percolation backbones. Physica B: Condensed Matter, 2000, 279, 84-86.	1.3	12
45	Probing single magnon excitations in $Sr2IrO4$ using ^{87}K -edge resonant inelastic x-ray scattering. Journal of Physics Condensed Matter, 2015, 27, 202202.	0.7	11
46	Direct observation of electronic-liquid-crystal phase transitions and their microscopic origin in $La1/3Ca2/3MnO3$. Scientific Reports, 2016, 6, 37624.	1.6	11
47	Dual Orbital Degeneracy Lifting in a Strongly Correlated Electron System. Physical Review Letters, 2021, 126, 186402.	2.9	11
48	Quasiparticle bands in the realistic bilayer cuprates. Physical Review B, 1997, 56, 2843-2846.	1.1	10
49	Effective-medium theory of the giant magnetoresistance in magnetic granular samples and doped $LaMnO3$ perovskites. Physical Review B, 2000, 62, 550-555.	1.1	10
50	HYBRIDIZATION BETWEEN 4f-5d STATES IN $ErAs(100)$. Surface Review and Letters, 2004, 11, 531-539.	0.5	10
51	Possible realization of a multichannel Kondo model in a system of magnetic chains. Physical Review B, 2013, 88, .	1.1	10
52	Giant spin gap and magnon localization in the disordered Heisenberg antiferromagnet $Sr2Ir1-xRuxO4$. Physical Review B, 2017, 95, .	1.1	8
53	Phase competition and anomalous thermal evolution in high-temperature superconductors. Physical Review B, 2017, 96, .	1.1	8
54	Probing the pathway of an ultrafast structural phase transition to illuminate the transition mechanism in $Cu2S$. Applied Physics Letters, 2018, 113, 041904.	1.5	8

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55	Three-dimensional Ising ferromagnetism of Cr-Fe-Cr trimers in $\text{Fe}_2\text{Te}_2\text{O}_7$. Physical Review B, 2020, 102, .	1.1	8
56	Quasiparticle bands and superconductivity for the multiple-layer and three-dimensional superlattice-J models. Physical Review B, 1998, 57, 11743-11751.	1.1	7
57	Molecular dynamics simulation of the order-disorder phase transition in solid NaNO_2 . Physical Review B, 2003, 68, .	1.1	7
58	Spectral functions of the Falicov-Kimball model with electronic ferroelectricity. Physical Review B, 2003, 68, .	1.1	6
59	RAPID ALGORITHM FOR IDENTIFYING BACKBONES IN THE TWO-DIMENSIONAL PERCOLATION MODEL. International Journal of Modern Physics C, 2003, 14, 1427-1437.	0.8	6
60	Electronic mechanism for the coexistence of ferroelectricity and ferromagnetism. Physical Review B, 2007, 75, .	1.1	6
61	Quantum Liquid with Strong Orbital Fluctuations: The Case of a Pyroxene Family. Physical Review Letters, 2019, 123, 237204.	2.9	6
62	Concurrent probing of electron-lattice dephasing induced by photoexcitation in TaTe_2 using ultrafast electron diffraction. Physical Review B, 2020, 101, .	1.1	6
63	Photoinduced anisotropic lattice dynamic response and domain formation in thermoelectric SnSe . Npj Quantum Materials, 2021, 6, .	1.8	6
64	Direct Detection of V-V Atom Dimerization and Rotation Dynamic Pathways upon Ultrafast Photoexcitation in VO_2 . Physical Review X, 2022, 12, .	2.8	6
65	Electronic structure of the iron chalcogenide KFeAgTe_2 revealed by angle-resolved photoemission spectroscopy. Physical Review B, 2013, 88, .	1.1	5
66	Electronic Structure Reconstruction across the Antiferromagnetic Transition in $\text{TaFe}_{1.23}\text{Te}_3$ Spin Ladder. Chinese Physics Letters, 2015, 32, 027401.	1.3	5
67	A novel first-principles approach to effective Hamiltonians for high T_c superconducting cuprates. Journal of Physics: Conference Series, 2008, 108, 012032.	0.3	4
68	$\text{CaMn}_2\text{Al}_{10}$: Itinerant Mn magnetism on the verge of magnetic order. Physical Review B, 2015, 92, .	1.1	4
69	Dimerization and spin decoupling in a two-leg Heisenberg ladder with frustrated trimer rungs. Physical Review B, 2021, 103, .	1.1	4
70	Dynamics of a single hole in a quantum antiferromagnet: self-consistent Born approximation study. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 220, 281-286.	0.9	2
71	Interacting Boson Approach to the Low-Dimensional Quantum Antiferromagnets: a Variational Monte Carlo Study. Communications in Theoretical Physics, 1996, 25, 111-114.	1.1	2
72	Study of Spin Polarons in Extended J Model by Self-Consistent Born Approximation. Modern Physics Letters B, 1998, 12, 205-213.	1.0	2

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73	Quasiparticle bands in plane-chain coupled cuprates. <i>European Physical Journal B</i> , 2000, 13, 5-10.	0.6	2
74	Flavor-twisted boundary condition for simulations of quantum many-body systems. <i>Physical Review B</i> , 2009, 80, .	1.1	2
75	Magnetic softness in iron-based superconductors. <i>Superconductor Science and Technology</i> , 2012, 25, 084007.	1.8	2
76	Robust and tunable Weyl phases by coherent infrared phonons in ZrTe5. <i>Npj Computational Materials</i> , 2022, 8, .	3.5	2
77	Quasiparticle bands and superconductivity in bilayer cuprates. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 1689-1690.	0.6	1
78	Two-Step Evolution of the Quasiparticle Band with Doping in the Two-Dimensional $t\text{-}t'\text{-}t''\text{-}J$ Model. <i>International Journal of Modern Physics B</i> , 1998, 12, 2914-2919.	1.0	1
79	Hole spectral functions of LaMnO3. <i>Physica C: Superconductivity and Its Applications</i> , 2001, 364-365, 120-122.	0.6	0
80	Variational Monte Carlo study of a spin-1/2 Heisenberg antiferromagnet in magnetic fields. <i>AIP Conference Proceedings</i> , 2003, .	0.3	0
81	Electronic Properties of Thin Film Periodic Nanostructures. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009, 6, 403-417.	0.4	0
82	<l>A Special Issue on</l>: Structural, Electronic and Optical Properties of Nanostructures. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009, 6, 233-238.	0.4	0
83	Mapping Valence Electron Distribution of Iron-Based Superconductors using Quantitative CBED and Precession Electron Diffraction. <i>Microscopy and Microanalysis</i> , 2015, 21, 1099-1100.	0.2	0
84	Photoinduced Topological Insulator to Dirac Semimetal Transition in ZrTe5. <i>Microscopy and Microanalysis</i> , 2021, 27, 2718-2719.	0.2	0