Wei-Guo Yin

List of Publications by Year
in descending order

84	3,049	279701 23	155592 55
papers	citations	h-index	g-index

87	87	87	4135
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Direct Detection of V-V Atom Dimerization and Rotation Dynamic Pathways upon Ultrafast Photoexcitation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>VO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ Physical Review X, 2022, 12, .	2.8	6
2	Robust and tunable Weyl phases by coherent infrared phonons in ZrTe5. Npj Computational Materials, 2022, 8, .	3.5	2
3	Topological Phase Transition and Phonon-Space Dirac Topology Surfaces in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>ZrTe</mml:mi></mml:mrow><mml:mrow><mml:mn>5</mml:mn></ Physical Review Letters, 2021, 126, 016401.	2.9	16
4	Dimerization and spin decoupling in a two-leg Heisenberg ladder with frustrated trimer rungs. Physical Review B, 2021, 103, .	1.1	4
5	Dual Orbital Degeneracy Lifting in a Strongly Correlated Electron System. Physical Review Letters, 2021, 126, 186402.	2.9	11
6	Photoinduced Topological Insulator to Dirac Semimetal Transition in ZrTe5. Microscopy and Microanalysis, 2021, 27, 2718-2719.	0.2	0
7	Photoinduced anisotropic lattice dynamic response and domain formation in thermoelectric SnSe. Npj Quantum Materials, 2021, 6, .	1.8	6
8	Three-dimensional Ising ferrimagnetism of Cr-Fe-Cr trimers in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Fe</mml:mi><mml:msub><mml:mi mathvariant="normal">Cr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Te</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2020, 102, .	1.1	8
9	Photoinduced Dirac semimetal in ZrTe5. Npj Quantum Materials, 2020, 5, .	1.8	21
10	Two-orbital degeneracy lifted local precursor to a metal-insulator transition in MgTi2O4. Physical Review B, 2020, 102, .	1.1	13
11	Concurrent probing of electron-lattice dephasing induced by photoexcitation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi></mml:mrow></mml -TaSeTe using ultrafast electron diffraction. Physical Review B, 2020, 101, .	1.1	6
12	Magnetic mixed valent semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>EuZnSb</mml:mi></mml:mrow> with Dirac states in the band structure. Physical Review Research, 2020, 2, .	1.3	19
13	Magnetic-Field Control of Topological Electronic Response near Room Temperature in Correlated Kagome Magnets. Physical Review Letters, 2019, 123, 196604.	2.9	20
14	Local orbital degeneracy lifting as a precursor to an orbital-selective Peierls transition. Nature Communications, 2019, 10, 3638.	5.8	42
15	Quantum Liquid with Strong Orbital Fluctuations: The Case of a Pyroxene Family. Physical Review Letters, 2019, 123, 237204.	2.9	6
16	Absence of Dirac states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaZnBi</mml:mi><mml:mn>2</mml:mn></mml induced by spin-orbit coupling. Physical Review B, 2018, 97, .	1.1	13
17	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
18	Giant spin gap and magnon localization in the disordered Heisenberg antiferromagnet Sr2Ir1â˜'xRuxO4. Physical Review B, 2017, 95, .	1.1	8

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19	Magnetotransport properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoP</mml:mi><mml:mn>2</mml:mn></mml:msub></m Physical Review B, 2017, 96, .	1.1	22
20	Width-Tuned Magnetic Order Oscillation on Zigzag Edges of Honeycomb Nanoribbons. Nano Letters, 2017, 17, 4400-4404.	4.5	21
21	Phase competition and anomalous thermal evolution in high-temperature superconductors. Physical Review B, 2017, 96, .	1.1	8
22	Dichotomy in ultrafast atomic dynamics as direct evidence of polaron formation in manganites. Npj Quantum Materials, 2016, 1, .	1.8	31
23	Direct observation of electronic-liquid-crystal phase transitions and their microscopic origin in La1/3Ca2/3MnO3. Scientific Reports, 2016, 6, 37624.	1.6	11
24	Charge ordering in stoichiometric FeTe: Scanning tunneling microscopy and spectroscopy. Physical Review B, 2016, 93, .	1.1	21
25	Interfacial Coupling-Induced Ferromagnetic Insulator Phase in Manganite Film. Nano Letters, 2016, 16, 4174-4180.	4.5	24
26	Mapping Valence Electron Distribution of Iron-Based Superconductors using Quantitative CBED and Precession Electron Diffraction. Microscopy and Microanalysis, 2015, 21, 1099-1100.	0.2	0
27	Probing single magnon excitations in Sr₂IrO₄ using O <i>K</i>-edge resonant inelastic x-ray scattering. Journal of Physics Condensed Matter, 2015, 27, 202202.	0.7	11
28	Iron-Based Superconductivity. Springer Series in Materials Science, 2015, , .	0.4	44
29	Electronic Structure Reconstruction across the Antiferromagnetic Transition in TaFe 1.23 Te 3 Spin Ladder. Chinese Physics Letters, 2015, 32, 027401.	1.3	5
30	CaMn2Al10: Itinerant Mn magnetism on the verge of magnetic order. Physical Review B, 2015, 92, .	1.1	4
31	Giant Switchable Rashba Effect in Oxide Heterostructures. Advanced Materials Interfaces, 2015, 2, 1400445.	1.9	29
32	Intra-unit-cell nematic charge order in the titanium-oxypnictide family of superconductors. Nature Communications, 2014, 5, 5761.	5.8	25
33	Structural, magnetic, and electrical properties of Li<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Ir<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Ru<m	1.1	32
34	Strong Coupling of the Iron-Quadrupole and Anion-Dipole Polarizations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Ba</mml:mi><mml:msub><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml	2.9	23
35	Ferromagnetic Exchange Anisotropy from Antiferromagnetic Superexchange in the Mixed<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>3</mml:mn><mml:mi>d</mml:mi><mml:mo>â^'</mml:mo><mml:mn>5</mml:mn><mml:mi>d</mml:mi></r Compound<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>CuIrO</mml:mi><m Physical Review Letters, 2013, 111, 057202.	2.9	41
36	Possible realization of a multichannel Kondo model in a system of magnetic chains. Physical Review B, 2013, 88, .	1.1	10

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37	Local structural evidence for strong electronic correlations in spinel LiRh<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow	1.1	19
38	Evidence for Short-Range-Ordered Charge Stripes Far above the Charge-Ordering Transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mn>1.67</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mi><mml: Physical Review Letters, 2013, 111, 096404.	2.9	30
39	Electronic structure of the iron chalcogenide KFeAgTe2revealed by angle-resolved photoemission spectroscopy. Physical Review B, 2013, 88, .	1.1	5
40	Magnetic softness in iron-based superconductors. Superconductor Science and Technology, 2012, 25, 084007.	1.8	2
41	Structure and physical properties of the layered iron oxychalcogenide BaFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow	1.1	26
42	Testing the Validity of the Strong Spin-Orbit-Coupling Limit for Octahedrally Coordinated Iridate Compounds in a Model System<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>CuIrO</mml:mi><mml: Physical Review Letters, 2012, 109, 157401.	2.9	92
43	Insulating magnetism in vacancy-ordered K0.8Fe1.6Se2. Physical Review B, 2012, 86, .	1.1	18
44	Long-range magnetic ordering in Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>IrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Rev	1.1	300
45	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
46	Unified Picture for Magnetic Correlations in Iron-Based Superconductors. Physical Review Letters, 2010, 105, 107004.	2.9	164
47	Charge ordering in half-doped manganites: Weak charge disproportion and leading mechanisms. Europhysics Letters, 2010, 89, 27008.	0.7	18
48	Tuning the in-plane electron behavior in high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:mrow></mml:math> cuprate superconductors via apical atoms: A first-principles Wannier-states analysis. Physical Review B, 2009, 79, .	1.1	20
49	Flavor-twisted boundary condition for simulations of quantum many-body systems. Physical Review B, 2009, 80, .	1.1	2
50	Enhanced superconducting transition temperature in FeSe0.5Te0.5 thin films. Applied Physics Letters, 2009, 95, .	1.5	101
51	Ferro-Orbital Order and Strong Magnetic Anisotropy in the Parent Compounds of Iron-Pnictide Superconductors. Physical Review Letters, 2009, 103, 267001.	2.9	358
52	Electronic Properties of Thin Film Periodic Nanostructures. Journal of Computational and Theoretical Nanoscience, 2009, 6, 403-417.	0.4	0
53	<I>A Special Issue on</I>: Structural, Electronic and Optical Properties of Nanostructures. Journal of Computational and Theoretical Nanoscience, 2009, 6, 233-238.	0.4	0
54	A novel first-principles approach to effective Hamiltonians for high T_csuperconducting cuprates. Journal of Physics: Conference Series, 2008, 108, 012032.	0.3	4

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55	Electronic mechanism for the coexistence of ferroelectricity and ferromagnetism. Physical Review B, 2007, 75, .	1.1	6
56	High-Energy Kink Observed in the Electron Dispersion of High-Temperature Cuprate Superconductors. Physical Review Letters, 2007, 98, 167003.	2.9	129
57	Orbital Ordering inLaMnO3: Electron-Electron versus Electron-Lattice Interactions. Physical Review Letters, 2006, 96, 116405.	2.9	94
58	Coexistence of Gapless Excitations and Commensurate Charge-Density Wave in the2HTransition Metal Dichalcogenides. Physical Review Letters, 2006, 96, 026406.	2.9	36
59	Superionicity inNa3PO4: A molecular dynamics simulation. Physical Review B, 2004, 70, .	1.1	15
60	Simulations of ferroelectric polymer film polarization: The role of dipole interactions. Physical Review B, 2004, 69, .	1.1	65
61	Electronic properties ofNaCdF3:â€‚â€‚A first-principles prediction. Physical Review B, 2004, 69, .	1.1	17
62	Large dielectric constant and Maxwell-Wagner relaxation inBi2âˆ•3Cu3Ti4O12. Physical Review B, 2004, 70, .	1.1	474
63	HYBRIDIZATION BETWEEN 4f-5d STATES IN ErAs(100). Surface Review and Letters, 2004, 11, 531-539.	0.5	10
64	Dielectric permittivity and electric modulus in Bi2Ti4O11. Journal of Chemical Physics, 2003, 119, 2812-2819.	1.2	246
65	Spectral functions of the Falicov-Kimball model with electronic ferroelectricity. Physical Review B, 2003, 68, .	1.1	6
66	Molecular dynamics simulation of the order-disorder phase transition in solidNaNO2. Physical Review B, 2003, 68, .	1.1	7
67	RAPID ALGORITHM FOR IDENTIFYING BACKBONES IN THE TWO-DIMENSIONAL PERCOLATION MODEL. International Journal of Modern Physics C, 2003, 14, 1427-1437.	0.8	6
68	Theoretical study on the optical properties of polyvinylidene fluoride crystal. Journal of Physics Condensed Matter, 2003, 15, 3805-3811.	0.7	19
69	Variational Monte Carlo study of a spin-1/2 Heisenberg antiferromagnet in magnetic fields. AIP Conference Proceedings, 2003, , .	0.3	0
70	Hole spectral functions of LaMnO3. Physica C: Superconductivity and Its Applications, 2001, 364-365, 120-122.	0.6	0
71	Anisotropy of the superconducting transition temperature under uniaxial pressure. Physical Review B, 2001, 64, .	1.1	14
72	Single Hole Motion inLaMnO3. Physical Review Letters, 2001, 87, 047204.	2.9	18

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73	Algorithm for finding two-dimensional site percolation backbones. Physica B: Condensed Matter, 2000, 279, 84-86.	1.3	12
74	Quasiparticle bands in plane-chain coupled cuprates. European Physical Journal B, 2000, 13, 5-10.	0.6	2
75	Effective-medium theory of the giant magnetoresistance in magnetic granular samples and dopedLaMnO3perovskites. Physical Review B, 2000, 62, 550-555.	1.1	10
76	Origin of the Extended Van Hove region in Cuprate Superconductors. Physical Review Letters, 1998, 81, 2534-2537.	2.9	33
77	Impurity effects on the spin excitation spectra in ad-wave superconductor. Physical Review B, 1998, 58, 2895-2899.	1.1	22
78	Quasiparticle bands and superconductivity for the multiple-layer and three-dimensional superlatticet-Jmodels. Physical Review B, 1998, 57, 11743-11751.	1.1	7
79	Two-Step Evolution of the Quasiparticle Band with Doping in the Two-Dimensional t-tâ€²-tâ€³-J Model. International Journal of Modern Physics B, 1998, 12, 2914-2919.	1.0	1
80	Study of Spin Polarons in Extended tâ€“J Model by Self-Consistent Born Approximation. Modern Physics Letters B, 1998, 12, 205-213.	1.0	2
81	Quasiparticle bands in the realistic bilayer cuprates. Physical Review B, 1997, 56, 2843-2846.	1.1	10
82	Quasiparticle bands and superconductivity in bilayer cuprates. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1689-1690.	0.6	1
83	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
84	Interacting Boson Approach to the Low-Dimensional Quantum Antiferromagnets: a Variational Monteâ€“Carlo Study. Communications in Theoretical Physics, 1996, 25, 111-114.	1.1	2