

Weida Wu

List of Publications by Year in descending order

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77
papers

5,061
citations

147566

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88477

70
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81
all docs

81
docs citations

81
times ranked

6598
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional itinerant ferromagnetism in atomically thin Fe ₃ CeTe ₂ . Nature Materials, 2018, 17, 778-782.	13.3	995
2	Insulating interlocked ferroelectric and structural antiphase domain walls in multiferroic YMnO ₃ . Nature Materials, 2010, 9, 253-258.	13.3	373
3	Realization of the Axion Insulator State in Quantum Anomalous Hall Sandwich Heterostructures. Physical Review Letters, 2018, 120, 056801.	2.9	254
4	Crystal growth and magnetic structure of MnBi . Physical Review Materials, 2019, 3, .	2.9	242
5	Conduction of Topologically Protected Charged Ferroelectric Domain Walls. Physical Review Letters, 2012, 108, 077203.	2.9	210
6	Magnetic imaging of a supercooling glass transition in a weakly disordered ferromagnet. Nature Materials, 2006, 5, 881-886.	13.3	205
7	Room-Temperature Multiferroic Hexagonal LuFeO_3 Films. Physical Review Letters, 2013, 110, 237601.	2.9	195
8	Bulk magnetoelectricity in the hexagonal manganites and ferrites. Nature Communications, 2014, 5, 2998.	5.8	181
9	Enhancing the Quantum Anomalous Hall Effect by Magnetic Codoping in a Topological Insulator. Advanced Materials, 2018, 30, 1703062.	11.1	141
10	Record Surface State Mobility and Quantum Hall Effect in Topological Insulator Thin Films via Interface Engineering. Nano Letters, 2015, 15, 8245-8249.	4.5	119
11	Domain Wall Conduction and Polarization-Mediated Transport in Ferroelectrics. Advanced Functional Materials, 2013, 23, 2592-2616.	7.8	113
12	Direct visualization of magnetoelectric domains. Nature Materials, 2014, 13, 163-167.	13.3	112
13	Giant topological Hall effect in correlated oxide thin films. Nature Physics, 2019, 15, 67-72.	6.5	111
14	Collective Magnetism at Multiferroic Vortex Domain Walls. Nano Letters, 2012, 12, 6055-6059.	4.5	106
15	Formation of Pancake-like Ising Domains and Giant Magnetic Coercivity in Ferrimagnetic LuFe_2O_4 . Physical Review Letters, 2008, 101, 107203.	2.9	98
16	Spin chirality fluctuation in two-dimensional ferromagnets with perpendicular magnetic anisotropy. Nature Materials, 2019, 18, 1054-1059.	13.3	85
17	Toward the Intrinsic Limit of the Topological Insulator Bi_2Te_3 . Physical Review Letters, 2011, 107, 077203.	2.9	66
18	Robust A -Type Order and Spin-Flop Transition on the Surface of the Antiferromagnetic Topological Insulator MnBi . Physical Review Letters, 2020, 125, 037201.	2.9	66

#	ARTICLE	IF	CITATIONS
19	Direct evidence of ferromagnetism in a quantum anomalous Hall system. Nature Physics, 2018, 14, 791-795.	6.5	65
20	Magnetic Imaging of Domain Walls in the Antiferromagnetic Topological Insulator MnBi_2Te_4 . Nano Letters, 2020, 20, 2609-2614.	4.5	63
21	Polarization-Modulated Rectification at Ferroelectric Surfaces. Physical Review Letters, 2010, 104, 217601.	2.9	62
22	Seeing is believing: visualization of antiferromagnetic domains. Npj Quantum Materials, 2020, 5, .	1.8	62
23	Electric-Field Modulation of Interface Magnetic Anisotropy and Spin Reorientation Transition in $(\text{Co/Pt})_3/\text{PMN}/\text{PT}$ Heterostructure. ACS Applied Materials & Interfaces, 2017, 9, 10855-10864.	4.0	56
24	Room-temperature skyrmion lattice in a layered magnet $(\text{Fe}_{0.5}\text{Co}_{0.5})_5\text{GeTe}_2$. Science Advances, 2022, 8, eabm7103.	4.7	55
25	Two-channel anomalous Hall effect in SrRuO_3 . Physical Review Materials, 2020, 4, .	1.9	43
26	Site Mixing for Engineering Magnetic Topological Insulators. Physical Review X, 2021, 11, .	2.8	50
27	Microscopic evidence of a strain-enhanced ferromagnetic state in LaCoO_3 thin films. Applied Physics Letters, 2009, 95, .	1.5	46
28	Hysteretic Melting Transition of a Soliton Lattice in a Commensurate Charge Modulation. Physical Review Letters, 2013, 111, 266401.	2.9	46
29	Electric and magnetic modulation of fully strained dead layers in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$. Physical Review B, 2008, 78, .	1.1	41
30	Native defects in antiferromagnetic topological insulator MnBi_2Te_4 . Physical Review Materials, 2020, 4, .	1.9	40
31	A compact dual-tip STM design. IEEE Nanotechnology Magazine, 2006, 5, 77-79.	1.1	36
32	Restoring pristine Bi_2Se_3 surfaces with an effective Se decapping process. Nano Research, 2015, 8, 1222-1228.	5.8	32
33	Challenges in identifying chiral spin textures via the topological Hall effect. Communications Materials, 2022, 3, .	2.9	32
34	^{77}Se NMR Probe of Magnetic Excitations of the Magic Angle Effect in $(\text{TMTSF})_2\text{PF}_6$. Physical Review Letters, 2005, 94, 097004.	2.9	31
35	Giant magnetic coercivity and ionic superlattice nano-domains in $\text{Fe}_{0.25}\text{TaS}_2$. Europhysics Letters, 2009, 86, 37012.	0.7	31
36	Pancakelike Ising domains and charge-ordered superlattice domains in LuFe_2O_7 . Physical Review B, 2009, 79, .	1.1	29

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37	Transferring MBE-Grown Topological Insulator Films to Arbitrary Substrates and Metal-Insulator Transition via Dirac Gap. Nano Letters, 2014, 14, 1343-1348.	4.5	29
38	Solution to the Hole-Doping Problem and Tunable Quantum Hall Effect in Bi_2Se_3 Thin Films. Nano Letters, 2018, 18, 820-826.	4.5	29
39	Giant angular-dependent Nernst effect in the quasi-one-dimensional organic conductor $(\text{TMTSF})_2\text{PF}_6$. Physical Review B, 2005, 72, .	1.1	26
40	Piezoresponse force microscopy of domains and walls in multiferroic HoMnO_3 . Applied Physics Letters, 2011, 99, .	1.5	26
41	Visualizing ferromagnetic domain behavior of magnetic topological insulator thin films. Npj Quantum Materials, 2016, 1, .	1.8	26
42	Hierarchical stripe phases in IrTe_2 driven by competition between Ir dimerization and Te bonding. Physical Review B, 2014, 90, .	1.1	24
43	Observation of a topological insulator Dirac cone reshaped by non-magnetic impurity resonance. Npj Quantum Materials, 2018, 3, .	1.8	23
44	Quasiparticle interference of surface states in the type-II Weyl semimetal WTe_2 . Physical Review B, 2017, 96, .	1.1	22
45	Direct evidence of ferromagnetism in MnSbTe_4 . Physical Review B, 2021, 103, .	1.1	22
46	High-field magnetic force microscopy as susceptibility imaging. Applied Physics Letters, 2006, 89, 032502.	1.5	19
47	Visualizing ferromagnetic domains in magnetic topological insulators. APL Materials, 2015, 3, .	2.2	19
48	Disorder-driven topological phase transition in Bi_2S_3 thin films.	1.1	19
49	Visualizing weak ferromagnetic domains in multiferroic hexagonal ferrite thin film. Physical Review B, 2017, 95, .	1.1	19
50	Trimer bonding states on the surface of the transition-metal dichalcogenide TaTe_2 . Physical Review B, 2018, 98, .	1.1	19
51	Electronic fingerprints of Cr and V dopants in the topological insulator Sb_2Te_3 . Physical Review B, 2018, 98, .	1.1	19
52	Magnetic domain engineering in SrRuO_3 thin films. Npj Quantum Materials, 2020, 5, .	1.8	18
53	Magnetic inhomogeneity in a multiferroic EuTiO_3 thin film. Physical Review B, 2013, 87, .	1.1	17
54	Magnetic Weyl Semimetallic Phase in Thin Films of EuO . Physical Review Letters, 2021, 127, 277204.	2.9	17

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73	Intrinsic superstructure near atomically clean armchair step edges of graphite. Physical Review B, 2019, 100, .	1.1	3
74	Absence of in-gap modes in charge density wave edge dislocations of the Weyl semimetal (TaSe4)2I. Physical Review B, 2021, 104, .	1.1	3
75	Bulk magnetoelectricity in the hexagonal manganites and ferrites. , 0, .		1
76	On the angular dependences of the superconducting and normal state properties of the Bechgaard Salts: Triplet Superconductivity, Enhanced H ₂ near the S-I boundary, Giant Nernst Effect at Lebedev Magic Angles. Synthetic Metals, 2003, 137, 1305-1307.	2.1	0
77	H _{c2} enhancement and giant Nernst effect in (TMTSF) ₂ (PF) ₆ . European Physical Journal Special Topics, 2002, 12, 189-195.	0.2	0