

Weida Wu

List of Publications by Year in descending order

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papers

5,061
citations

147566

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docs citations

81
times ranked

6598
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature skyrmion lattice in a layered magnet (Fe _{0.5} Co _{0.5}) ₅ GeTe ₂ . Science Advances, 2022, 8, eabm7103.	4.7	55
2	Challenges in identifying chiral spin textures via the topological Hall effect. Communications Materials, 2022, 3, .	2.9	32
3	Chiral-Bubble-Induced Topological Hall Effect in Ferromagnetic Topological Insulator Heterostructures. Nano Letters, 2021, 21, 1108-1114.	4.5	15
4	Robust Surface States and Coherence Phenomena in Magnetically Alloyed SmB_6 . Physical Review Letters, 2021, 126, 136401.	2.9	4
5	Surface charge induced Dirac band splitting in a charge density wave material I . Physical Review Research, 2021, 3, .	1.1	1
6	Direct evidence of ferromagnetism in MnSb_2Te_4 . Physical Review B, 2021, 103, .	1.1	22
7	Site Mixing for Engineering Magnetic Topological Insulators. Physical Review X, 2021, 11, .	2.8	50
8	Absence of in-gap modes in charge density wave edge dislocations of the Weyl semimetal (TaSe ₄) ₂ I. Physical Review B, 2021, 104, .	1.1	3
9	Magnetic Weyl Semimetallic Phase in Thin Films of EuO . Physical Review Letters, 2021, 127, 277204.	2.9	1
10	Spectromicroscopic measurement of surface and bulk band structure interplay in a disordered topological insulator. Nature Physics, 2020, 16, 285-289.	6.5	8
11	Robust A -Type Order and Spin-Flop Transition on the Surface of the Antiferromagnetic Topological Insulator MnBi_2Te_4 . Physical Review Letters, 2020, 125, 037201.	2.9	66
12	Magnetic domain engineering in SrRuO ₃ thin films. Npj Quantum Materials, 2020, 5, .	1.8	18
13	Magnetic Imaging of Domain Walls in the Antiferromagnetic Topological Insulator MnBi_2Te_4 . Nano Letters, 2020, 20, 2609-2614.	4.5	63
14	Seeing is believing: visualization of antiferromagnetic domains. Npj Quantum Materials, 2020, 5, .	1.8	62
15	Pb-doped p -type Bi_2Te_3 thin films via interfacial engineering. Physical Review Materials, 2020, 4, .	0.9	5
16	Two-channel anomalous Hall effect in SrRuO_3 . Physical Review Materials, 2020, 4, .	0.9	5
17	Native defects in antiferromagnetic topological insulator MnBi_2Te_4 . Physical Review Materials, 2020, 4, .	1.1	1
18	Spin chirality fluctuation in two-dimensional ferromagnets with perpendicular magnetic anisotropy. Nature Materials, 2019, 18, 1054-1059.	13.3	85

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19	Intrinsic superstructure near atomically clean armchair step edges of graphite. <i>Physical Review B</i> , 2019, 100, .	1.1	3
20	Giant topological Hall effect in correlated oxide thin films. <i>Nature Physics</i> , 2019, 15, 67-72.	6.5	111
21	Crystal growth and magnetic structure of MnBi . <i>Physical Review Materials</i> , 2019, 3, .	1.1	2
22	Realization of the Axion Insulator State in Quantum Anomalous Hall Sandwich Heterostructures. <i>Physical Review Letters</i> , 2018, 120, 056801.	2.9	254
23	Torque Differential Magnetometry Using the qPlus Mode of a Quartz Tuning Fork. <i>Physical Review Applied</i> , 2018, 9, .	1.5	8
24	Solution to the Hole-Doping Problem and Tunable Quantum Hall Effect in Bi_2Se_3 Thin Films. <i>Nano Letters</i> , 2018, 18, 820-826.	4.5	29
25	Topological Phase Transition with Nanoscale Inhomogeneity in $(\text{Bi}_2\text{In})_2\text{Se}_3$. <i>Nano Letters</i> , 2018, 18, 2677-2682.	4.5	7
26	Enhancing the Quantum Anomalous Hall Effect by Magnetic Codoping in a Topological Insulator. <i>Advanced Materials</i> , 2018, 30, 1703062.	11.1	141
27	Trimer bonding states on the surface of the transition-metal dichalcogenide TaTe_2 . <i>Physical Review B</i> , 2018, 98, .	1.1	19
28	Electronic fingerprints of Cr and V dopants in the topological insulator Sb_2Te_3 . <i>Physical Review B</i> , 2018, 98, .	1.1	12
29	Direct evidence of ferromagnetism in a quantum anomalous Hall system. <i>Nature Physics</i> , 2018, 14, 791-795.	6.5	65
30	Interferometric imaging of nonlocal electromechanical power transduction in ferroelectric domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5338-5342.	3.3	9
31	Observation of a topological insulator Dirac cone reshaped by non-magnetic impurity resonance. <i>Npj Quantum Materials</i> , 2018, 3, .	1.8	23
32	Two-dimensional itinerant ferromagnetism in atomically thin Fe_3GeTe_2 . <i>Nature Materials</i> , 2018, 17, 778-782.	13.3	995
33	Scanning tunneling spectroscopy investigations of superconducting-doped topological insulators: Experimental pitfalls and results. <i>Physical Review B</i> , 2018, 98, .	1.1	5
34	Electric-Field Modulation of Interface Magnetic Anisotropy and Spin Reorientation Transition in $(\text{Co}/\text{Pt})_3/\text{PMN}/\text{PT}$ Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10855-10864.	4.0	56
35	Quasiparticle interference of surface states in the type-II Weyl semimetal WTe_2 . <i>Physical Review B</i> , 2017, 96, .	1.1	22
36	Visualizing weak ferromagnetic domains in multiferroic hexagonal ferrite thin film. <i>Physical Review B</i> , 2017, 95, .	1.1	19

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37	Distortion-driven topological phase transition in $B_{i-1}S_2$ thin films. Physical Review Letters, 2016, 117, 106401.	1.1	19
38	Toward the Intrinsic Limit of the Topological Insulator Bi_2S_3 thin films. Physical Review Letters, 2016, 117, 106401.	2.9	66
39	Visualizing anisotropic propagation of stripe domain walls in staircaselike transitions of $IrTe_2$. Physical Review B, 2016, 94, .	1.1	17
40	Visualizing ferromagnetic domain behavior of magnetic topological insulator thin films. Npj Quantum Materials, 2016, 1, .	1.8	26
41	Quantitative measurements of shear displacement using atomic force microscopy. Applied Physics Letters, 2016, 108, .	1.5	5
42	Visualizing ferromagnetic domains in magnetic topological insulators. APL Materials, 2015, 3, .	2.2	19
43	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
44	Restoring pristine Bi_2Se_3 surfaces with an effective Se decapping process. Nano Research, 2015, 8, 1222-1228.	5.8	32
45	Hierarchical stripe phases in $IrTe_2$ driven by competition between Ir dimerization and Te bonding. Physical Review B, 2014, 90, .	1.1	24
46	Background-free piezoresponse force microscopy for quantitative measurements. Applied Physics Letters, 2014, 104, 072905.	1.5	13
47	Direct visualization of magnetoelectric domains. Nature Materials, 2014, 13, 163-167.	13.3	112
48	Bulk magnetoelectricity in the hexagonal manganites and ferrites. Nature Communications, 2014, 5, 2998.	5.8	181
49	Magnetoelectric force microscopy based on magnetic force microscopy with modulated electric field. Review of Scientific Instruments, 2014, 85, 053901.	0.6	12
50	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
51	Domain Wall Conduction and Polarization-Mediated Transport in Ferroelectrics. Advanced Functional Materials, 2013, 23, 2592-2616.	7.8	113
52	Hysteretic Melting Transition of a Soliton Lattice in a Commensurate Charge Modulation. Physical Review Letters, 2013, 111, 266401.	2.9	46
53	Magnetic inhomogeneity in a multiferroic $EuTiO_3$ thin film. Physical Review B, 2013, 87, .	1.1	17
54	Observation of a spin-density wave node on antiferromagnetic $Cr(110)$ islands. Physical Review B, 2013, 87, .	1.1	8

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55	Room-Temperature Multiferroic Hexagonal LuFeO_3 Films. Physical Review Letters, 2013, 110, 237601.	2.9	195
56	Collective Magnetism at Multiferroic Vortex Domain Walls. Nano Letters, 2012, 12, 6055-6059.	4.5	106
57	Conduction of Topologically Protected Charged Ferroelectric Domain Walls. Physical Review Letters, 2012, 108, 077203.	2.9	210
58	Piezoresponse force microscopy of domains and walls in multiferroic HoMnO_3 . Applied Physics Letters, 2011, 99, .	1.5	26
59	Insulating interlocked ferroelectric and structural antiphase domain walls in multiferroic YMnO_3 . Nature Materials, 2010, 9, 253-258.	13.3	373
60	Polarization-Modulated Rectification at Ferroelectric Surfaces. Physical Review Letters, 2010, 104, 217601.	2.9	62
61	Microscopic evidence of a strain-enhanced ferromagnetic state in LaCoO_3 thin films. Applied Physics Letters, 2009, 95, .	1.5	46
62	Pancakelike Ising domains and charge-ordered superlattice domains in LuFe_2O_7 . Physical Review B, 2009, 79, .	1.1	29
63	Giant magnetic coercivity and ionic superlattice nano-domains in $\text{Fe}_{0.25}\text{TaS}_2$. Europhysics Letters, 2009, 86, 37012.	0.7	31
64	Formation of Pancakelike Ising Domains and Giant Magnetic Coercivity in Ferrimagnetic LuFe_2O_7 . Physical Review Letters, 2008, 101, 137203.	2.9	98
65	Electric and magnetic modulation of fully strained dead layers in $\text{La}_{0.67}\text{Sr}_{0.33}\text{TiO}_3$. Physical Review B, 2008, 78, .	1.1	41
66	Current-voltage characteristics of phase separated $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3 \cdot \text{Nb} \cdot \text{SrTiO}_3$ p-n junction and magnetic tunability. Applied Physics Letters, 2008, 92, 232109.	1.5	6
67	Numerical investigation of Nernst effect in quasi-one-dimensional systems. Physical Review B, 2007, 76, .	1.1	4
68	Magnetothermoelectric effects in $(\text{TMTSF})_2\text{ClO}_4$. Physical Review B, 2006, 74, .	1.1	11
69	Magnetic imaging of a supercooling glass transition in a weakly disordered ferromagnet. Nature Materials, 2006, 5, 881-886.	13.3	205
70	A compact dual-tip STM design. IEEE Nanotechnology Magazine, 2006, 5, 77-79.	1.1	36
71	High-field magnetic force microscopy as susceptibility imaging. Applied Physics Letters, 2006, 89, 032502.	1.5	19
72	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

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73	Se77NMR Probe of Magnetic Excitations of the Magic Angle Effect in(TMTSF)2PF6. Physical Review Letters, 2005, 94, 097004.	2.9	31
74	Phase coherence and the Nernst effect at magic angles in organic conductors. Europhysics Letters, 2004, 66, 579-584.	0.7	12
75	On the angular dependences of the superconducting and normal state properties of the Bechgaard Salts: Triplet Superconductivity, Enhanced H2 near the S-1 boundary, Giant Nernst Effect at Lebed Magic Angles. Synthetic Metals, 2003, 137, 1305-1307.	2.1	0
76	Hc2 enhancement and giant Nernst effect in (TMTSF)2(PF)6. European Physical Journal Special Topics, 2002, 12, 189-195.	0.2	0
77	Bulk magnetoelectricity in the hexagonal manganites and ferrites. , 0, .		1