Tao Zhu

List of Publications by Year
in descending order

		394421	434195
70	1,138	19	31
papers	citations	h-index	g-index

70	70	70	1615
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultra-high thermal stability of perpendicular magnetic anisotropy in the W buffered CoFeB/MgO stacks with Zr dusting layers. Applied Physics Letters, 2022, 120, 022402.	3.3	2
2	Room-Temperature Ferromagnetism at an Oxide-Nitride Interface. Physical Review Letters, 2022, 128, 017202.	7.8	11
3	Role of oxygen vacancies in colossal polarization in SmFeO _{3â^'Î´} thin films. Science Advances, 2022, 8, eabm8550.	10.3	13
4	Effect of interlayer Dzyaloshinskii-Moriya interaction on spin structure in synthetic antiferromagnetic multilayers. Physical Review B, 2022, 105, .	3.2	9
5	The Enhanced Swelling Resistance of W/Cu Nanocomposites by Vacancy-Type Defects Self-Recovery. Crystals, 2022, 12, 759.	2.2	1
6	Current-induced magnetization switching in epitaxial L1-FePt/Cr heterostructures through orbital Hall effect. Journal of Applied Physics, 2022, 132, .	2.5	1
7	Strainâ€Mediated High Conductivity in Ultrathin Antiferromagnetic Metallic Nitrides. Advanced Materials, 2021, 33, 2005920.	21.0	25
8	Strong Ferromagnetism Achieved via Breathing Lattices in Atomically Thin Cobaltites. Advanced Materials, 2021, 33, e2001324.	21.0	21
9	Electrolyte/Dye/TiO₂ Interfacial Structures of Dye-Sensitized Solar Cells Revealed by In Situ Neutron Reflectometry with Contrast Matching. Langmuir, 2021, 37, 1970-1982.	3.5	6
10	Enhanced negative magnetoresistance near the charge neutral point in Cr doped topological insulator. RSC Advances, 2021, 11, 13964-13969.	3.6	2
11	Ferromagnetic Materials: Strong Ferromagnetism Achieved via Breathing Lattices in Atomically Thin Cobaltites (Adv. Mater. 4/2021). Advanced Materials, 2021, 33, 2170026.	21.0	0
12	Hall-bar-width dependence of the field-like spin-orbit torque in NiFe/Pt bilayers. Journal of Superconductivity and Novel Magnetism, 2021, 34, 1209-1214.	1.8	0
13	W layer thickness dependence of the spinâ€“orbit effective fields in NiFe/W bilayers. Journal of Applied Physics, 2021, 129, 063903.	2.5	0
14	Dimensional Control of Octahedral Tilt in SrRuO₃ via Infinite-Layered Oxides. Nano Letters, 2021, 21, 3146-3154.	9.1	14
15	Defectâ€Engineered Dzyaloshinskiiâ€“Moriya Interaction and Electricâ€Fieldâ€Switchable Topological Spin Texture in SrRuO₃. Advanced Materials, 2021, 33, e2102525.	21.0	34
16	Defectâ€Engineered Dzyaloshinskiiâ€“Moriya Interaction and Electricâ€Fieldâ€Switchable Topological Spin Texture in SrRuO₃ (Adv. Mater. 33/2021). Advanced Materials, 2021, 33, 2170255.	21.0	1
17	Vertical Distribution in Inverted Nonfullerene Polymer Solar Cells by Layerâ€byâ€Layer Solution Fabrication Process. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100386.	2.4	8
18	The helium behavior and thermal stability of W/Ta bilayer nanocomposite investigated by neutron reflectometry. Nuclear Instruments & Methods in Physics Research B, 2021, 504, 43-49.	1.4	1

#	Article	IF	Citations
19	High thermal stability of perpendicular magnetic anisotropy in the MgO/CoFeB/W thin films. Applied Surface Science, 2021, 568, 150857.	6.1	4
20	Uncovering the out-of-plane nanomorphology of organic photovoltaic bulk heterojunction by GTSAXS. Nature Communications, 2021, 12, 6226.	12.8	23
21	Polarized neutron reflectometry characterization of perpendicular magnetized Ho3Fe5O12 films with efficient spin-orbit torque induced switching. Applied Physics Letters, 2021, 119, .	3.3	6
22	Current-induced magnetization switching in perpendicularly magnetized V/CoFeB/MgO multilayers. Physical Review B, 2021, 104, .	3.2	4
23	Large-scale multiferroic complex oxide epitaxy with magnetically switched polarization enabled by solution processing. National Science Review, 2020, 7, 84-91.	9.5	20
24	Topotactic phase transformations by concerted dual-ion migration of B-site cation and oxygen in multivalent cobaltite Laâ€“Srâ€“Coâ€“Ox films. Nano Energy, 2020, 78, 105215.	16.0	17
25	Magnetic Skyrmions in a Hall Balance with Interfacial Canted Magnetizations. Advanced Materials, 2020, 32, e1907452.	21.0	26
26	Vertical Composition Distribution and Crystallinity Regulations Enable High-Performance Polymer Solar Cells with >17% Efficiency. ACS Energy Letters, 2020, 5, 3637-3646.	17.4	87
27	Unusual anomalous Hall effect in perpendicularly magnetized YIG films with a small Gilbert damping constant. Physical Review B, 2020, 101, .	3.2	16
28	Contribution of the magnetic anisotropy to the current induced spinâ€“orbit effective fields in the in-plane magnetized ferromagnetic metal and heavy metal multilayers. Japanese Journal of Applied Physics, 2020, 59, 040906.	1.5	5
29	Quantitative Determination of the Vertical Segregation and Molecular Ordering of PBDB-T/ITIC Blend Films with Solvent Additives. ACS Applied Materials & Interfaces, 2020, 12, 24165-24173.	8.0	21
30	Giant interface spin-orbit torque in NiFe/Pt bilayers*. Chinese Physics B, 2020, 29, 087102.	1.4	4
31	Simultaneously Enhanced Spin Hall Effect and Spin-Mixing Conductance in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mrow><mml:mi mathvariant="normal">Y</mml:mi></mml:mrow></mml:mrow><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:mrow><mml:mn>12</mml:mn></mml:msub></mml:math> /bcc- <mml:math xmlns:mml="http://. Physical Review Applied, 2020, 13, .	3.8	3
32	Magnetization switching driven by current-induced torque from weakly spin-orbit coupled Zr. Physical Review Research, 2020, 2, .	3.6	33
33	Interface induced enhancement of inverse spin Hall voltage in NiFe/Pt bilayers capped by MgO layer. Journal of Physics Condensed Matter, 2019, 31, 285801.	1.8	3
34	Impact of Donorâ€“Acceptor Interaction and Solvent Additive on the Vertical Composition Distribution of Bulk Heterojunction Polymer Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 45979-45990.	8.0	40
35	Characterization of YIG thin films and vacuum annealing effect by polarized neutron reflectometry and magnetotransport measurements. Applied Physics Letters, 2019, 115, .	3.3	22
36	The Microscopic Structureâ€“Property Relationship of Metalâ€“Organic Polyhedron Nanocomposites. Angewandte Chemie - International Edition, 2019, 58, 17412-17417.	13.8	29

#	Article	IF	Citations
37	The behavior of helium atoms in He+ ion implanted W/Ni bilayer nanocomposite. Applied Surface Science, 2019, 486, 274-280.	6.1	7
38	Probing the Transfer of the Exchange Bias Effect by Polarized Neutron Reflectometry. Scientific Reports, 2019, 9, 6708.	3.3	17
39	Enhancement of Gilbert Damping in NiFe/Pt Bilayers With MgO Capping Layers. , 2018, , .		0
40	MR: The multipurpose reflectometer at CSNS. Neutron News, 2018, 29, 11-13.	0.2	25
41	Interfacial coupling and negative spin Hall magnetoresistance in Pt/NiO/YIG. Applied Physics Letters, 2018, 113, .	3.3	15
42	Reconfigurable Magnetic Logic Combined with Nonvolatile Memory Writing. Advanced Materials, 2017, 29, 1605027.	21.0	35
43	Thickness Dependence of Localization to the Anomalous Hall Effect in Amorphous CoFeB Thin Films. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	1
44	Tuning perpendicular magnetic anisotropy in the MgO/CoFeB/Ta thin films. , 2015, , .		6
45	The Motion of Magnetic Skyrmions Driven by Propagating Spin Waves. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	13
46	Magnetic skyrmions motion driven by propagating spin waves. , 2015, , .		0
47	Anomalous Hall effect in perpendicular CoFeB thin films. Chinese Physics B, 2014, 23, 047504.	1.4	20
48	The anomalous Hall effect in the perpendicular Ta/CoFeB/MgO thin films. Journal of Applied Physics, 2013, 113, 17C717.	2.5	10
49	Physical design of target station and neutron instruments for China Spallation Neutron Source. Science China: Physics, Mechanics and Astronomy, 2013, 56, 2410-2424.	5.1	52
50	Scaling of the anomalous Hall effect in perpendicular CoFeB/Pt multilayers. Journal of Applied Physics, 2013, 113, 17C119.	2.5	16
51	The study of perpendicular magnetic anisotropy in CoFeB sandwiched by MgO and tantalum layers using polarized neutron reflectometry. Applied Physics Letters, 2012, 100, .	3.3	45
52	Highly sensitive linear spin valve realized by tuning 90Â° coupling in a NiFe/thin IrMn/biased NiFe structure through nonmagnetic spacer insertion. Journal of Applied Physics, 2011, 109, .	2.5	10
53	Microstructure, magnetic, and spin-dependent transport properties of (Zn,Cr)Te films fabricated by magnetron sputtering. Physical Review B, 2008, 77, .	3.2	7
54	Negative TMR in magnetic tunneling junctions with Zr oxide barrier. , 2005, , .		0

#	Article	IF	Citations
55	Surface spin glass and exchange bias inFe3O4nanoparticles compacted under high pressure. Physical Review B, 2004, 70, .	3.2	76
56	Probing tunnel barrier shape and its effects on inversed tunneling magnetoresistance at high bias. Journal of Electronic Materials, 2004, 33, 1274-1279.	2.2	3
57	Effects of vacuum annealing on the transport property of La $mathsf{_{0.67}}$ Sr $mathsf{_{0.33}}$ MnO $mathsf{_{3-delta}}$ films. European Physical Journal B, 2003, 35, 481-491.	1.5	19
58	Magnetic transition and large low-field magnetoresistance near Curie temperature in polycrystalline La2/3A1/3MnO3 (A=Ca,Sr). Journal of Applied Physics, 2003, 93, 8092-8094.	2.5	10
59	Observation of the barrier structure in magnetic tunnel junctions using high-resolution electron microscopy and electron holography. Applied Physics Letters, 2003, 83, 5482-5484.	3.3	13
60	Effects of carbon on magnetic properties and magnetic entropy change of the LaFe11.5Si1.5 compound. Journal of Applied Physics, 2003, 93, 6981-6983.	2.5	58
61	Structural and magnetic properties of Nd60Fe30â^'xCoxAl10 melt-spun ribbons. Journal of Applied Physics, 2003, 93, 6930-6932.	2.5	3
62	Multiple magnetic transitions and large magnetoresistance of Y0.8Dy0.2Mn6Sn6 compound. Journal of Applied Physics, 2003, 93, 7687-7689.	2.5	4
63	Multiple magnetic transitions and magnetoresistance anomalies in the Er0.9Tb0.1Mn6Sn6 compound. Journal of Applied Physics, 2003, 93, 6984-6986.	2.5	5
64	Recent developments in magnetic tunnel junctions. IEEE Transactions on Magnetics, 2003, 39, 2770-2775.	2.1	5
65	Study on the barriers in magnetic tunnel junctions by electron holography. Microscopy and Microanalysis, 2003, 9, 312-313.	0.4	0
66	Magnetic coupling and magnetoresistance in Fe/Si1â^'xAgx multilayers. Applied Physics Letters, 2002, 80, 631-633.	3.3	0
67	Enhanced anisotropic magnetoresistance in Co/Pt multilayers due to the interface effect of inserted Ni layers. Journal of Applied Physics, 2002, 91, 3111-3113.	2.5	4
68	Surface spin-glass behavior in La2/3Sr1/3MnO3 nanoparticles. Applied Physics Letters, 2001, 78, 3863-3865.	3.3	136
69	Tunneling magnetoresistance and magnetic properties of Feâ€“Al2O3 nanogranular films. Journal of Applied Physics, 2001, 89, 6877-6879.	2.5	9
70	Comment I on â€œGrain-boundary effects on the electrical resistivity and the ferromagnetic transition temperature of La0.8Ca0.2MnO3â€•[Appl. Phys. Lett. 77, 118 (2000)]. Applied Physics Letters, 2001, 78, 1790-1791.	3.3	2