

Tao Zhu

List of Publications by Year in descending order

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papers

1,138
citations

394421

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70
docs citations

70
times ranked

1615
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface spin-glass behavior in La ₂ /3Sr ₁ /3MnO ₃ nanoparticles. Applied Physics Letters, 2001, 78, 3863-3865.	3.3	136
2	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
3	Surface spin glass and exchange bias in Fe ₃ O ₄ nanoparticles compacted under high pressure. Physical Review B, 2004, 70, .	3.2	76
4	Effects of carbon on magnetic properties and magnetic entropy change of the LaFe _{11.5} Si _{1.5} compound. Journal of Applied Physics, 2003, 93, 6981-6983.	2.5	58
5	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
6	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
7	Impact of Donor-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
8	Reconfigurable Magnetic Logic Combined with Nonvolatile Memory Writing. Advanced Materials, 2017, 29, 1605027.	21.0	35
9	Defect-Engineered Dzyaloshinskii-Moriya Interaction and Electric-Field-Switchable Topological Spin Texture in SrRuO ₃ . Advanced Materials, 2021, 33, e2102525.	21.0	34
10	Magnetization switching driven by current-induced torque from weakly spin-orbit coupled Zr. Physical Review Research, 2020, 2, .	3.6	33
11	The Microscopic Structure-Property Relationship of Metal-Organic Polyhedron Nanocomposites. Angewandte Chemie - International Edition, 2019, 58, 17412-17417.	13.8	29
12	Magnetic Skyrmions in a Hall Balance with Interfacial Canted Magnetizations. Advanced Materials, 2020, 32, e1907452.	21.0	26
13	MR: The multipurpose reflectometer at CSNS. Neutron News, 2018, 29, 11-13.	0.2	25
14	Strain-Mediated High Conductivity in Ultrathin Antiferromagnetic Metallic Nitrides. Advanced Materials, 2021, 33, 2005920.	21.0	25
15	Uncovering the out-of-plane nanomorphology of organic photovoltaic bulk heterojunction by GTSAXS. Nature Communications, 2021, 12, 6226.	12.8	23
16	Characterization of YIG thin films and vacuum annealing effect by polarized neutron reflectometry and magnetotransport measurements. Applied Physics Letters, 2019, 115, .	3.3	22
17	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
18	Strong Ferromagnetism Achieved via Breathing Lattices in Atomically Thin Cobaltites. Advanced Materials, 2021, 33, e2001324.	21.0	21

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19	Anomalous Hall effect in perpendicular CoFeB thin films. Chinese Physics B, 2014, 23, 047504.	1.4	20
20	Large-scale multiferroic complex oxide epitaxy with magnetically switched polarization enabled by solution processing. National Science Review, 2020, 7, 84-91.	9.5	20
21	Effects of vacuum annealing on the transport property of La _{0.67} Sr _{0.33} MnO _{3-δ} films. European Physical Journal B, 2003, 35, 481-491.	1.5	19
22	Probing the Transfer of the Exchange Bias Effect by Polarized Neutron Reflectometry. Scientific Reports, 2019, 9, 6708.	3.3	17
23	Topotactic phase transformations by concerted dual-ion migration of B-site cation and oxygen in multivalent cobaltite La _{1-x} Sr _x CoO _x films. Nano Energy, 2020, 78, 105215.	16.0	17
24	Scaling of the anomalous Hall effect in perpendicular CoFeB/Pt multilayers. Journal of Applied Physics, 2013, 113, 17C119.	2.5	16
25	Unusual anomalous Hall effect in perpendicularly magnetized YIG films with a small Gilbert damping constant. Physical Review B, 2020, 101, .	3.2	16
26	Interfacial coupling and negative spin Hall magnetoresistance in Pt/NiO/YIG. Applied Physics Letters, 2018, 113, .	3.3	15
27	Dimensional Control of Octahedral Tilt in SrRuO ₃ via Infinite-Layered Oxides. Nano Letters, 2021, 21, 3146-3154.	9.1	14
28	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
29	The Motion of Magnetic Skyrmions Driven by Propagating Spin Waves. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	13
30	Role of oxygen vacancies in colossal polarization in SmFeO ₃ thin films. Science Advances, 2022, 8, eabm8550.	10.3	13
31	Room-Temperature Ferromagnetism at an Oxide-Nitride Interface. Physical Review Letters, 2022, 128, 017202.	7.8	11
32	Magnetic transition and large low-field magnetoresistance near Curie temperature in polycrystalline La _{2/3} A _{1/3} MnO ₃ (A=Ca,Sr). Journal of Applied Physics, 2003, 93, 8092-8094.	2.5	10
33	Highly sensitive linear spin valve realized by tuning 90° coupling in a NiFe/thin IrMn/biased NiFe structure through nonmagnetic spacer insertion. Journal of Applied Physics, 2011, 109, .	2.5	10
34	The anomalous Hall effect in the perpendicular Ta/CoFeB/MgO thin films. Journal of Applied Physics, 2013, 113, 17C717.	2.5	10
35	Tunneling magnetoresistance and magnetic properties of Fe/Al ₂ O ₃ nanogranular films. Journal of Applied Physics, 2001, 89, 6877-6879.	2.5	9
36	Effect of interlayer Dzyaloshinskii-Moriya interaction on spin structure in synthetic antiferromagnetic multilayers. Physical Review B, 2022, 105, .	3.2	9

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37	Vertical Distribution in Inverted Nonfullerene Polymer Solar Cells by Layer-by-Layer Solution Fabrication Process. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100386.	2.4	8
38	Microstructure, magnetic, and spin-dependent transport properties of (Zn,Cr)Te films fabricated by magnetron sputtering. <i>Physical Review B</i> , 2008, 77, .	3.2	7
39	The behavior of helium atoms in He ⁺ ion implanted W/Ni bilayer nanocomposite. <i>Applied Surface Science</i> , 2019, 486, 274-280.	6.1	7
40	Tuning perpendicular magnetic anisotropy in the MgO/CoFeB/Ta thin films. , 2015, , .		6
41	Electrolyte/Dye/TiO ₂ Interfacial Structures of Dye-Sensitized Solar Cells Revealed by <i>in Situ</i> Neutron Reflectometry with Contrast Matching. <i>Langmuir</i> , 2021, 37, 1970-1982.	3.5	6
42	Polarized neutron reflectometry characterization of perpendicular magnetized Ho ₃ Fe ₅ O ₁₂ films with efficient spin-orbit torque induced switching. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	6
43	Multiple magnetic transitions and magnetoresistance anomalies in the Er _{0.9} Tb _{0.1} Mn ₆ Sn ₆ compound. <i>Journal of Applied Physics</i> , 2003, 93, 6984-6986.	2.5	5
44	Recent developments in magnetic tunnel junctions. <i>IEEE Transactions on Magnetics</i> , 2003, 39, 2770-2775.	2.1	5
45	Contribution of the magnetic anisotropy to the current induced spin-orbit effective fields in the in-plane magnetized ferromagnetic metal and heavy metal multilayers. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 040906.	1.5	5
46	Enhanced anisotropic magnetoresistance in Co/Pt multilayers due to the interface effect of inserted Ni layers. <i>Journal of Applied Physics</i> , 2002, 91, 3111-3113.	2.5	4
47	Multiple magnetic transitions and large magnetoresistance of Y _{0.8} Dy _{0.2} Mn ₆ Sn ₆ compound. <i>Journal of Applied Physics</i> , 2003, 93, 7687-7689.	2.5	4
48	Giant interface spin-orbit torque in NiFe/Pt bilayers*. <i>Chinese Physics B</i> , 2020, 29, 087102.	1.4	4
49	High thermal stability of perpendicular magnetic anisotropy in the MgO/CoFeB/W thin films. <i>Applied Surface Science</i> , 2021, 568, 150857.	6.1	4
50	Current-induced magnetization switching in perpendicularly magnetized V/CoFeB/MgO multilayers. <i>Physical Review B</i> , 2021, 104, .	3.2	4
51	Structural and magnetic properties of Nd ₆₀ Fe ₃₀ xCo _x Al ₁₀ melt-spun ribbons. <i>Journal of Applied Physics</i> , 2003, 93, 6930-6932.	2.5	3
52	Probing tunnel barrier shape and its effects on inversed tunneling magnetoresistance at high bias. <i>Journal of Electronic Materials</i> , 2004, 33, 1274-1279.	2.2	3
53	Interface induced enhancement of inverse spin Hall voltage in NiFe/Pt bilayers capped by MgO layer. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 285801.	1.8	3
54	Simultaneously Enhanced Spin Hall Effect and Spin-Mixing Conductance in a $Y_3O_{12}/\text{CoFeB}/\text{MgO}/\text{Pt}$ structure. <i>Physical Review Applied</i> , 2020, 13, .	3.8	3

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55	Comment I on "Grain-boundary effects on the electrical resistivity and the ferromagnetic transition temperature of La _{0.8} Ca _{0.2} MnO ₃ " [Appl. Phys. Lett. 77, 118 (2000)]. Applied Physics Letters, 2001, 78, 1790-1791.	3.3	2
56	Enhanced negative magnetoresistance near the charge neutral point in Cr doped topological insulator. RSC Advances, 2021, 11, 13964-13969.	3.6	2
57	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
58	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
59	Defect-Engineered Dzyaloshinskii-Moriya Interaction and Electric-Field-Switchable Topological Spin Texture in SrRuO ₃ (Adv. Mater. 33/2021). Advanced Materials, 2021, 33, 2170255.	21.0	1
60	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
61	The Enhanced Swelling Resistance of W/Cu Nanocomposites by Vacancy-Type Defects Self-Recovery. Crystals, 2022, 12, 759.	2.2	1
62	Current-induced magnetization switching in epitaxial <i>L</i> -1-FePt/Cr heterostructures through orbital Hall effect. Journal of Applied Physics, 2022, 132, .	2.5	1
63	Magnetic coupling and magnetoresistance in Fe/Si ^x Ag _x multilayers. Applied Physics Letters, 2002, 80, 631-633.	3.3	0
64	Study on the barriers in magnetic tunnel junctions by electron holography. Microscopy and Microanalysis, 2003, 9, 312-313.	0.4	0
65	Negative TMR in magnetic tunneling junctions with Zr oxide barrier. , 2005, , .		0
66	Magnetic skyrmions motion driven by propagating spin waves. , 2015, , .		0
67	Enhancement of Gilbert Damping in NiFe/Pt Bilayers With MgO Capping Layers. , 2018, , .		0
68	Ferromagnetic Materials: Strong Ferromagnetism Achieved via Breathing Lattices in Atomically Thin Cobaltites (Adv. Mater. 4/2021). Advanced Materials, 2021, 33, 2170026.	21.0	0
69	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
70	W layer thickness dependence of the spin-orbit effective fields in NiFe/W bilayers. Journal of Applied Physics, 2021, 129, 063903.	2.5	0