

Xiu Feng Han

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1462941/publications.pdf>

Version: 2024-02-01

272
papers

7,341
citations

53660

45
h-index

91712

69
g-index

284
all docs

284
docs citations

284
times ranked

6721
citing authors

#	ARTICLE	IF	CITATIONS
1	Current-driven magnetization switching in a van der Waals ferromagnet Fe ₃ GeTe ₂ . Science Advances, 2019, 5, eaaw8904.	4.7	239
2	Room-Temperature Skyrmion Shift Device for Memory Application. Nano Letters, 2017, 17, 261-268.	4.5	227
3	Néel-type skyrmion in WTe ₂ /Fe ₃ GeTe ₂ van der Waals heterostructure. Nature Communications, 2020, 11, 3860.	5.8	208
4	Room temperature ferromagnetism in ultra-thin van der Waals crystals of 1T-CrTe ₂ . Nano Research, 2020, 13, 3358-3363.	5.8	175
5	Giant electrical modulation of magnetization in Co ₄₀ Fe ₄₀ B ₂₀ /Pb(Mg _{1/3} Nb _{2/3}) _{0.7} Ti _{0.3} O ₃ (011) heterostructure. Scientific Reports, 2014, 4, 3727.	1.6	166
6	Room-Temperature Spin-Orbit Torque from Topological Surface States. Physical Review Letters, 2019, 123, 207205.	2.9	129
7	High Spin Hall Conductivity in Large-Area Type-II Dirac Semimetal PtTe ₂ . Advanced Materials, 2020, 32, e2000513.	11.1	117
8	The study of interaction between graphene and metals by Raman spectroscopy. Journal of Applied Physics, 2011, 109, 07C501.	1.1	110
9	Spin-orbit torques: Materials, physics, and devices. Applied Physics Letters, 2021, 118, .	1.5	100
10	Room-Temperature Skyrmions in an Antiferromagnet-Based Heterostructure. Nano Letters, 2018, 18, 980-986.	4.5	98
11	Ferroelastic switching in a layered-perovskite thin film. Nature Communications, 2016, 7, 10636.	5.8	97
12	Magnon Valve Effect between Two Magnetic Insulators. Physical Review Letters, 2018, 120, 097205.	2.9	97
13	80% tunneling magnetoresistance at room temperature for thin Al ₂ O ₃ barrier magnetic tunnel junction with CoFeB as free and reference layers. Journal of Applied Physics, 2007, 101, 09B501.	1.1	94
14	Giant nonvolatile manipulation of magnetoresistance in magnetic tunnel junctions by electric fields via magnetoelectric coupling. Nature Communications, 2019, 10, 243.	5.8	94
15	The perpendicular anisotropy of Co ₄₀ Fe ₄₀ B ₂₀ sandwiched between Ta and MgO layers and its application in CoFeB/MgO/CoFeB tunnel junction. Applied Physics Letters, 2011, 99, .	1.5	92
16	Field-Free Programmable Spin Logics via Chirality-Dependent Reversible Spin-Orbit Torque Switching. Advanced Materials, 2018, 30, e1801318.	11.1	91
17	Spin-orbit torque switching in a T-type magnetic configuration with current orthogonal to easy axes. Nature Communications, 2019, 10, 233.	5.8	91
18	Strain induced enhancement of perpendicular magnetic anisotropy in Co/graphene and Co/BN heterostructures. Physical Review B, 2017, 95, .	1.1	89

#	ARTICLE	IF	CITATIONS
19	Role of dimensional crossover on spin-orbit torque efficiency in magnetic insulator thin films. <i>Nature Communications</i> , 2018, 9, 3612.	5.8	84
20	Spin-orbit torque in MgO/CoFeB/Ta/CoFeB/MgO symmetric structure with interlayer antiferromagnetic coupling. <i>Physical Review B</i> , 2017, 95, .	1.1	82
21	Spin-Orbit Torque Switching of a Nearly Compensated Ferrimagnet by Topological Surface States. <i>Advanced Materials</i> , 2019, 31, e1901681.	11.1	81
22	Chiral Spin-Wave Velocities Induced by All-Garnet Interfacial Dzyaloshinskii-Moriya Interaction in Ultrathin Yttrium Iron Garnet Films. <i>Physical Review Letters</i> , 2020, 124, 027203.	2.9	80
23	Observation of magnon-mediated electric current drag at room temperature. <i>Physical Review B</i> , 2016, 93, .	1.1	76
24	Anatomy of Skyrmionic Textures in Magnetic Multilayers. <i>Advanced Materials</i> , 2019, 31, e1807683.	11.1	75
25	Spin gapless semiconductor like Ti_2MnAl film as a new candidate for spintronics application. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 641-645.	1.2	70
26	Large spin-orbit torque efficiency enhanced by magnetic structure of collinear antiferromagnet IrMn. <i>Science Advances</i> , 2019, 5, eaau6696.	4.7	70
27	Quantum Tunneling of Magnetization in a Metal-Organic Framework. <i>Physical Review Letters</i> , 2014, 112, 017202.	2.9	68
28	Creating zero-field skyrmions in exchange-biased multilayers through X-ray illumination. <i>Nature Communications</i> , 2020, 11, 949.	5.8	67
29	Magnetic memory driven by topological insulators. <i>Nature Communications</i> , 2021, 12, 6251.	5.8	67
30	Nanoring magnetic tunnel junction and its application in magnetic random access memory demo devices with spin-polarized current switching (invited). <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	66
31	Electrical switching of perpendicular magnetization in a single ferromagnetic layer. <i>Physical Review B</i> , 2020, 101, .	1.1	66
32	Giant Enhancements of Perpendicular Magnetic Anisotropy and Spin-Orbit Torque by a MoS_2 Layer. <i>Advanced Materials</i> , 2019, 31, e1900776.	11.1	65
33	Patterned nanoring magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2007, 91, 122511.	1.5	59
34	Temperature dependence of giant tunnel magnetoresistance in epitaxial Fe/MgO/Fe magnetic tunnel junctions. <i>Physical Review B</i> , 2008, 78, .	1.1	59
35	Programmable Spin Logic Based on Spin Hall Effect in a Single Device. <i>Advanced Electronic Materials</i> , 2017, 3, 1600282.	2.6	59
36	Magnetic switching of ferromagnetic nanotubes. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	58

#	ARTICLE	IF	CITATIONS
55	Long-Range Phase Coherence in Double-Barrier Magnetic Tunnel Junctions with a Large Thick Metallic Quantum Well. <i>Physical Review Letters</i> , 2015, 115, 157204.	2.9	37
56	Strong Electrical Manipulation of Spin-Orbit Torque in Ferromagnetic Heterostructures. <i>Advanced Electronic Materials</i> , 2016, 2, 1600219.	2.6	37
57	Strategy for Fabricating Wafer-Scale Platinum Disulfide. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8202-8209.	4.0	37
58	A Van der Waals Interface Hosting Two Groups of Magnetic Skyrmions. <i>Advanced Materials</i> , 2022, 34, e2110583.	11.1	37
59	Magnetic asymmetry induced anomalous spin-orbit torque in IrMn. <i>Physical Review B</i> , 2020, 101, .	1.1	36
60	Spin-dependent tunneling spectroscopy for interface characterization of epitaxial Fe/MgO/Fe magnetic tunnel junctions. <i>Physical Review B</i> , 2010, 81, .	1.1	35
61	Spatially Resolved Electric-Field Manipulation of Magnetism for CoFeB Mesoscopic Discs on Ferroelectrics. <i>Advanced Functional Materials</i> , 2018, 28, 1706448.	7.8	35
62	Synthesis and magnetic characterization of Co-NiO-Ni core-shell nanotube arrays. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	34
63	All-electrical manipulation of magnetization in magnetic tunnel junction via spin-orbit torque. <i>Applied Physics Letters</i> , 2020, 116, 162401.	1.5	34
64	Skyrmion-Based Programmable Logic Device with Complete Boolean Logic Functions. <i>Physical Review Applied</i> , 2021, 15, .	1.5	34
65	Chemical diffusion: Another factor affecting the magnetoresistance ratio in Ta/CoFeB/MgO/CoFeB/Ta magnetic tunnel junction. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	33
66	Nonmetallic Atoms Induced Magnetic Anisotropy in Monolayer Chromium Trihalides. <i>Journal of Physical Chemistry C</i> , 2019, 123, 691-697.	1.5	33
67	Temperature dependence of resistance in epitaxial Fe/MgO/Fe magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2009, 95, 052506.	1.5	32
68	A nonlocal spin Hall magnetoresistance in a platinum layer deposited on a magnon junction. <i>Nature Electronics</i> , 2020, 3, 304-308.	13.1	32
69	Néel-Type Elliptical Skyrmions in a Laterally Asymmetric Magnetic Multilayer. <i>Advanced Materials</i> , 2021, 33, e2006924.	11.1	32
70	Electric-Field Control of Magnetism in $\text{Co}_{40}\text{Fe}_{40}\text{B}_{20}/(1-x)\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-x\text{PbTiO}_3$ Multiferroic Heterostructures with Different Ferroelectric Phases. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3784-3791.	4.0	31
71	Strain controlling transport properties of heterostructure composed of monolayer CrI ₃ . <i>Applied Physics Letters</i> , 2019, 114, .	1.5	31
72	Magnetic proximity effect at the molecular scale: First-principles calculations. <i>Physical Review B</i> , 2008, 78, .	1.1	30

#	ARTICLE	IF	CITATIONS
73	Electrical spin injection into GaAs based light emitting diodes using perpendicular magnetic tunnel junction-type spin injector. Applied Physics Letters, 2016, 108, .	1.5	30
74	Electron Beam Lithography of Magnetic Skyrmions. Advanced Materials, 2020, 32, e2003003.	11.1	30
75	Perpendicular anisotropy dependence of oscillatory interlayer coupling behavior in [Pt/Co]5/Ru/[Co/Pt]5 multilayers. Journal of Applied Physics, 2008, 104, .	1.1	29
76	1 / f noise in MgO double-barrier magnetic tunnel junctions. Applied Physics Letters, 2011, 98, .	1.5	29
77	Oscillatory tunnel magnetoresistance in double barrier magnetic tunnel junctions. Physical Review B, 2005, 72, .	1.1	28
78	First-principles study of Fe/MgO based magnetic tunnel junctions with Mg interlayers. Physical Review B, 2010, 82, .	1.1	28
79	Organic magnetic tunnel junctions: The role of metal-molecule interface. Physical Review B, 2012, 86, .	1.1	28
80	MgO(001) barrier based magnetic tunnel junctions and their device applications. Science China: Physics, Mechanics and Astronomy, 2013, 56, 29-60.	2.0	28
81	Noise suppression and sensitivity manipulation of magnetic tunnel junction sensors with soft magnetic Co70.5Fe4.5Si15B10 layer. Journal of Applied Physics, 2017, 122, .	1.1	28
82	Enhanced exchange bias and improved ferromagnetic properties in Permalloy/BiFe0.95Co0.05O3 core-shell nanostructures. Scientific Reports, 2016, 5, 18203.	1.6	27
83	Exchange bias and spin-orbit torque in the Fe3GeTe2-based heterostructures prepared by vacuum exfoliation approach. Applied Physics Letters, 2021, 118, .	1.5	27
84	Temperature-dependent Mn-diffusion modes in CoFeB- and CoFe-based magnetic tunnel junctions: Electron-microscopy studies. Physical Review B, 2007, 75, .	1.1	26
85	Effects of current on nanoscale ring-shaped magnetic tunnel junctions. Physical Review B, 2008, 77, .	1.1	26
86	Magnetoelastic Anisotropy Induced Effects on Field and Temperature Dependent Magnetization Reversal of Ni Nanowires and Nanotubes. Journal of Superconductivity and Novel Magnetism, 2011, 24, 785-792.	0.8	26
87	In-plane current-driven spin-orbit torque switching in perpendicularly magnetized films with enhanced thermal tolerance. Applied Physics Letters, 2016, 108, .	1.5	26
88	Thickness dependence of anomalous Nernst coefficient and longitudinal spin Seebeck effect in ferromagnetic Ni _{1-x} Fe _x films. Scientific Reports, 2017, 7, 6175.	1.6	26
89	Large magnetic anisotropy and its strain modulation in two-dimensional intrinsic ferromagnetic monolayer RuO ₂ and OsO ₂ . Physical Chemistry Chemical Physics, 2018, 20, 28162-28168.	1.3	26
90	Determining spin-torque efficiency in ferromagnetic metals via spin-torque ferromagnetic resonance. Physical Review B, 2020, 101, .	1.1	26

#	ARTICLE	IF	CITATIONS
91	Enhancement of Spin-Orbit Torque by Strain Engineering in SrRuO ₃ Films. Advanced Functional Materials, 2021, 31, 2100380.	7.8	26
92	Nonreciprocal coherent coupling of nanomagnets by exchange spin waves. Nano Research, 2021, 14, 2133-2138.	5.8	26
93	Effect of Co interlayers in Fe/MgO/Fe magnetic tunnel junctions. Applied Physics Letters, 2008, 93, .	1.5	25
94	Exchange-biased hybrid ferromagnetic-multiferroic core-shell nanostructures. Nanoscale, 2014, 6, 7215-7220.	2.8	25
95	Magnetic response of hybrid ferromagnetic and antiferromagnetic core-shell nanostructures. Nanoscale, 2016, 8, 6064-6070.	2.8	25
96	Controlling spin-dependent tunneling by bandgap tuning in epitaxial rocksalt MgZnO films. Scientific Reports, 2014, 4, 7277.	1.6	24
97	Effect of external magnetic field on magnetic properties of Co-Pt nanotubes and nanowires. Journal of Applied Physics, 2011, 109, 07E157.	1.1	23
98	Tunneling magnetoresistance in Fe ₃ Si/MgO/Fe ₃ Si(001) magnetic tunnel junctions. Applied Physics Letters, 2014, 104, .	1.5	23
99	Magnetic Resonance in WCo		23
100	Four distinct resistive states in van der Waals full magnetic 1T-VSe ₂ /CrI ₃ /1T-VSe ₂ tunnel junction. Applied Surface Science, 2020, 505, 144648.	3.1	23
101	Current-induced multiple spin structures in 100 nm ring magnetic tunnel junctions. Physical Review B, 2008, 77, .	1.1	22
102	Large extraordinary Hall effect in $Pt_{1-x}Co_x$		22
103	First-principles study of perpendicular magnetic anisotropy in ferrimagnetic D022-Mn ₃ X (X = Ga, Ge) on MgO and SrTiO ₃ . Applied Physics Letters, 2018, 112, 142403.	1.5	22
104	Ultrahigh Tunneling-Magnetoresistance Ratios in Nitride-Based Perpendicular Magnetic Tunnel Junctions from First Principles. Physical Review Applied, 2018, 9, .	1.5	22
105	Coherent Resonant Tunneling through Double Metallic Quantum Well States. Nano Letters, 2019, 19, 3019-3026.	4.5	22
106	Characterization of Spin-Orbit Torque Efficiency in Magnetic Heterostructures with Perpendicular Magnetic Anisotropy via Spin-Torque Ferromagnetic Resonance. Physical Review Applied, 2020, 13, .	1.5	22
107	Magnetoresistance effect in antiferromagnet/nonmagnet/antiferromagnet multilayers. Applied Physics Letters, 2009, 95, .	1.5	21
108	Field-Free Spin-Orbit Torque Switching in Perpendicularly Magnetized Synthetic Antiferromagnets. Advanced Functional Materials, 2022, 32, 2109455.	7.8	21

#	ARTICLE	IF	CITATIONS
109	Experimental demonstration of programmable multi-functional spin logic cell based on spin Hall effect. Journal of Magnetism and Magnetic Materials, 2017, 428, 401-405.	1.0	20
110	Observation of large anomalous Nernst effect in 2D layered materials Fe ₃ GeTe ₂ . Applied Physics Letters, 2019, 115, .	1.5	20
111	Reconfigurable Spin-Wave Interferometer at the Nanoscale. Nano Letters, 2021, 21, 6237-6244.	4.5	20
112	Magnetic two-dimensional van der Waals materials for spintronic devices*. Chinese Physics B, 2021, 30, 118504.	0.7	20
113	Field-free approaches for deterministic spin-orbit torque switching of the perpendicular magnet. Materials Futures, 2022, 1, 022201.	3.1	20
114	Giant Coulomb blockade magnetoresistance in magnetic tunnel junctions with a granular layer. Physical Review B, 2010, 81, .	1.1	19
115	Perpendicular magnetic anisotropy in Ta Co ₄₀ Fe ₄₀ B ₂₀ MgAl ₂ O ₄ structures and perpendicular CoFeB MgAl ₂ O ₄ CoFeB magnetic tunnel junction. Applied Physics Letters, 2014, 105, 102407.	1.5	19
116	Polarization-Mediated Thermal Stability of Metal/Oxide Heterointerface. Advanced Materials, 2015, 27, 6934-6938.	11.1	19
117	First-principles study of MnAl for its application in MgO-based perpendicular magnetic tunnel junctions. Applied Physics Letters, 2017, 110, .	1.5	19
118	Study of spin-orbit torque induced magnetization switching in synthetic antiferromagnet with ultrathin Ta spacer layer. Applied Physics Letters, 2018, 113, .	1.5	19
119	Evidence of magnetization switching by anomalous spin Hall torque in NiFe. Physical Review B, 2020, 101, .	1.1	19
120	Room temperature ferromagnetism in Sn ^{1-x} V _x O ₂ films prepared by sol-gel method. Journal of Applied Physics, 2008, 104, 123909.	1.1	18
121	Junction resistance, tunnel magnetoresistance ratio, and spin-transfer torque in Zn-doped magnetic tunnel junctions. Physical Review B, 2012, 85, .	1.1	18
122	Effect of current processing on the transport property of the La _{0.67} Ca _{0.33} MnO ₃ film. Applied Physics Letters, 2005, 86, 242507.	1.5	17
123	Effect of annealing on the magnetic tunnel junction with Co/Pt perpendicular anisotropy ferromagnetic multilayers. Journal of Applied Physics, 2010, 107, 09C711.	1.1	17
124	Ultrahigh tunneling magnetoresistance in van der Waals and lateral magnetic tunnel junctions formed by intrinsic ferromagnets Li _{0.5} CrI ₃ and CrI ₃ . Applied Physics Letters, 2020, 117, 022412.	1.5	17
125	Giant tunneling magnetoresistance in van der Waals magnetic tunnel junctions formed by interlayer antiferromagnetic bilayer $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{CoBr} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2021, 103, .	1.1	17
126	Transition of laser-induced terahertz spin currents from torque- to conduction-electron-mediated transport. Physical Review B, 2022, 105, .	1.1	17

#	ARTICLE	IF	CITATIONS
127	Fabrication and magnetic characterization of Co x Pt1â”x nanowire arrays. Applied Physics A: Materials Science and Processing, 2008, 92, 687-691.	1.1	16
128	Current-induced magnetization switching in a microscale ring-shaped magnetic tunnel junction. Physical Review B, 2008, 77, .	1.1	16
129	Magnetic Properties of Exchange-Biased $[m \text{ Co/Pt}]_n$ Multilayer With Perpendicular Magnetic Anisotropy. IEEE Transactions on Magnetics, 2010, 46, 1401-1404.	1.2	16
130	Electric-field control of CoFeB/IrMn exchange bias system. Journal of Applied Physics, 2012, 112, .	1.1	16
131	Controllable synthesis of ferromagneticâ€“antiferromagnetic coreâ€“shell NWs with tunable magnetic properties. Nanoscale, 2017, 9, 5694-5700.	2.8	16
132	Electrical Initialization of Electron and Nuclear Spins in a Single Quantum Dot at Zero Magnetic Field. Nano Letters, 2018, 18, 2381-2386.	4.5	16
133	Atomic-scale understanding of high thermal stability of the Mo/CoFeB/MgO spin injector for spin-injection in remanence. Nanoscale, 2018, 10, 10213-10220.	2.8	16
134	Record thermopower found in an IrMn-based spintronic stack. Nature Communications, 2020, 11, 2023.	5.8	16
135	Exchange-bias like hysteretic magnetoelectric-coupling of as-grown synthetic antiferromagnetic structures. Applied Physics Letters, 2012, 101, 082414.	1.5	15
136	Piezoelectric enhancement of giant magnetoresistance in spin-valves with different magnetic anisotropies. Journal of Applied Physics, 2013, 113, .	1.1	15
137	Origin of the large voltage-controlled magnetic anisotropy in a Cr/Fe/MgO junction with an ultrathin Fe layer: First-principles investigation. Physical Review B, 2020, 101, .	1.1	15
138	Long decay length of magnon-polarons in BiFeO3/La0.67Sr0.33MnO3 heterostructures. Nature Communications, 2021, 12, 7258.	5.8	15
139	Inverse and oscillatory magnetoresistance in Fe(001)/MgO/Cr/Fe magnetic tunnel junctions. Physical Review B, 2010, 82, .	1.1	14
140	Manipulation of magnetization switching and tunnel magnetoresistance via temperature and voltage control. Scientific Reports, 2016, 5, 18269.	1.6	14
141	Current-Induced In-Plane Magnetization Switching in a Biaxial Ferrimagnetic Insulator. Physical Review Applied, 2020, 13, .	1.5	14
142	Magnetic properties and the interfacial Dzyaloshinskii-Moriya interaction in exchange biased Pt/Co/NixOy films. Applied Surface Science, 2021, 543, 148720.	3.1	14
143	Thermal stability of Ir-Mnâ”Co-Fe-Bâ”Al-Oâ”Co-Fe-B tunnel junctions. Journal of Applied Physics, 2005, 98, 113710.	1.1	13
144	Superparamagnetism in MgO-based magnetic tunnel junctions with a thin pinned ferromagnetic electrode. Physical Review B, 2010, 81, .	1.1	13

#	ARTICLE	IF	CITATIONS
145	Nanoelliptic Ring-Shaped Magnetic Tunnel Junction and Its Application in MRAM Design With Spin-Polarized Current Switching. IEEE Transactions on Magnetics, 2011, 47, 2957-2961.	1.2	13
146	Tuning asymmetry parameter of Fano resonance of spoof surface plasmons by modes coupling. Applied Physics Letters, 2012, 100, .	1.5	13
147	Ferroelectric-domain-controlled magnetic anisotropy in Co ₄₀ Fe ₄₀ B ₂₀ /YMnO ₃ multiferroic heterostructure. Applied Physics Letters, 2013, 102, .	1.5	13
148	Interface-induced perpendicular magnetic anisotropy in Co ₂ /FeAl/NiFe ₂ O ₄ superlattice: first-principles study. Physical Chemistry Chemical Physics, 2020, 22, 716-723.	1.3	13
149	Current-induced Néel order switching facilitated by magnetic phase transition. Nature Communications, 2022, 13, 1629.	5.8	13
150	Formation and magnetic properties of novel compounds Tb ₃ (Fe _{1-x} V _x) ₂₉ . Journal of Applied Physics, 1997, 81, 3248-3252.	1.1	12
151	High inverted tunneling magnetoresistance in MgO-based magnetic tunnel junctions. Applied Physics Letters, 2007, 91, .	1.5	12
152	Improved tunneling magnetoresistance in (Ga,Mn)As/AlO _x /CoFeB magnetic tunnel junctions. Applied Physics Letters, 2011, 98, 262501.	1.5	12
153	Evidence for magnon excitation contribution to the magnetoresistance behavior during thermal annealing in CoFeB/MgO/CoFeB magnetic tunnel junctions. Physical Review B, 2011, 83, .	1.1	12
154	Magnetic anisotropy and magnetization reversal in Co/Cu multilayers nanowires. Journal of Applied Physics, 2012, 111, 07C119.	1.1	12
155	Field sensing in MgO double barrier magnetic tunnel junctions with a superparamagnetic Co ₅₀ Fe ₅₀ free layer. Journal of Applied Physics, 2012, 111, 113906.	1.1	12
156	Structural and Magnetic Response in Bimetallic Core/Shell Magnetic Nanoparticles. Nanomaterials, 2016, 6, 72.	1.9	12
157	Evidence of Pure Spin-Current Generated by Spin Pumping in Interface-Localized States in Hybrid Metal/Silicon/Metal Vertical Structures. Nano Letters, 2019, 19, 90-99.	4.5	12
158	Robust Skyrmion Shift Device Through Engineering the Local Exchange-Bias Field. Physical Review Applied, 2020, 14, .	1.5	12
159	Magnetic Modulation of Terahertz Waves via Spin-Polarized Electron Tunneling Based on Magnetic Tunnel Junctions. Physical Review Applied, 2020, 14, .	1.5	12
160	Magnon Blocking Effect in an Antiferromagnet-Spaced Magnon Junction. Physical Review Applied, 2020, 14, .	1.5	12
161	Tunable Damping in Magnetic Nanowires Induced by Chiral Pumping of Spin Waves. ACS Nano, 2021, 15, 9076-9083.	7.3	12
162	Enhanced tunnel magnetoresistance in fully epitaxial ZnO:Co-based magnetic tunnel junctions with Mg-doped ZnO barrier. Applied Physics Letters, 2012, 100, .	1.5	11

#	ARTICLE	IF	CITATIONS
163	ELECTRIC-FIELD CONTROL OF GIANT MAGNETORESISTANCE IN SPIN-VALVES. <i>Spin</i> , 2012, 02, 1250006.	0.6	11
164	Enhanced tunneling electroresistance in multiferroic tunnel junctions due to the reversible modulation of orbitals overlap. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	11
165	Diameter-dependent multiferroic functionality in hybrid core/shell NWs. <i>Nanoscale</i> , 2016, 8, 14956-14964.	2.8	11
166	Spin transmission in IrMn through measurements of spin Hall magnetoresistance and spin-orbit torque. <i>Physical Review B</i> , 2020, 101, .	1.1	11
167	Gradual magnetization switching via domain nucleation driven by spin-orbit torque. <i>Applied Physics Letters</i> , 2021, 118, 032407.	1.5	11
168	Magnon valve effect and resonant transmission in a one-dimensional magnonic crystal. <i>Physical Review B</i> , 2021, 103, .	1.1	11
169	Electrical Spin Injection into the 2D Electron Gas in AlN/GaN Heterostructures with Ultrathin AlN Tunnel Barrier. <i>Advanced Functional Materials</i> , 2021, 31, 2009771.	7.8	11
170	Large spin to charge conversion in antiferromagnetic Weyl semimetal Mn ₃ Sn. <i>APL Materials</i> , 2021, 9, .	2.2	11
171	Switching the perpendicular magnetization of a magnetic insulator by magnon transfer torque. <i>Physical Review B</i> , 2021, 104, .	1.1	11
172	Annealing temperature dependence of exchange bias in BiFeO ₃ /CoFe bilayers. <i>Journal of Applied Physics</i> , 2012, 111, 07D908.	1.1	10
173	ORGANIC SPINTRONICS: PAST, PRESENT AND FUTURE. <i>Spin</i> , 2014, 04, 1440013.	0.6	10
174	Transport Properties in Sputtered CoFeB/MgAl ₂ O ₄ /CoFeB Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	1.2	10
175	Post magnetic field annealing effect on magnetic and structural properties of Co ₈₀ Pt ₂₀ nanowires and nanotubes fabricated by electrochemical method. <i>Journal of Applied Physics</i> , 2014, 115, 17A762.	1.1	10
176	Magnetic-field-free terahertz emission from a magnetic tunneling junction. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 090913.	0.8	10
177	Sub-50-nm wavelength spin waves excited by low-damping Co ₂₅ Fe ₇₅ nanowires. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	10
178	Superposition of Emergent Monopole and Antimonopole in CoTb Thin Films. <i>Physical Review Letters</i> , 2021, 127, 217201.	2.9	10
179	Manipulation of magnetization reversal of Ni ₈₁ Fe ₁₉ nanoellipse arrays by tuning the shape anisotropy and the magnetostatic interactions. <i>Journal of Applied Physics</i> , 2012, 111, 07B909.	1.1	9
180	Fabrication and magnetic properties of La-X (X = Co, Ni, and Fe) nanotube arrays prepared by electrodeposition methods. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	9

#	ARTICLE	IF	CITATIONS
181	Threshold magnetoresistance in anisotropic magnetic 2D transition metal dichalcogenides. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3058-3064.	2.7	9
182	Formation and magnetic-field stability of magnetic dipole skyrmions and bubbles in a ferrimagnet. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	9
183	Magnon junction effect in Y3Fe5O12/CoO/Y3Fe5O12 insulating heterostructures. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	9
184	Space-charge trap mediated conductance blockade in tunnel junctions with half-metallic electrodes. <i>Applied Physics Letters</i> , 2008, 93, 192507.	1.5	8
185	Nanotube wall thickness dependent magnetization reversal properties of NiFe nanotubes. <i>Journal of Applied Physics</i> , 2013, 113, 024315.	1.1	8
186	Tunneling processes in asymmetric double barrier magnetic tunnel junctions with a thin top MgO layer. <i>Journal of Applied Physics</i> , 2013, 114, 213909.	1.1	8
187	Spin dependent transport properties of Mn-Ga/MgO/Mn-Ga magnetic tunnel junctions with metal(Mg.) Tj ETQq1 1 0.784314.rgBT /Over	1.1	8
188	Spin Hall Magnetoresistance in CoFe₂O₄/Pt Films. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	1.2	8
189	Novel Cascadable Magnetic Majority Gates for Implementing Comprehensive Logic Functions. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 4687-4693.	1.6	8
190	First-principles prediction of switchable metallic ferroelectricity in multiferroic tunnel junctions. <i>Physical Review B</i> , 2019, 99, .	1.1	8
191	Magnon resonant tunneling effect in double-barrier insulating magnon junctions and magnon field effect transistor. <i>Physical Review B</i> , 2019, 99, .	1.1	8
192	Zero-field spin transfer oscillators based on magnetic tunnel junction having perpendicular polarizer and planar free layer. <i>AIP Advances</i> , 2016, 6, 125305.	0.6	8
193	Current-induced butterfly shaped domains and magnetization switching in magnetic tunnel junctions. <i>Science and Technology of Advanced Materials</i> , 2005, 6, 784-788.	2.8	7
194	Magnetization reversal and enhanced tunnel magnetoresistance ratio in perpendicular magnetic tunnel junctions based on exchange spring electrodes. <i>Journal of Applied Physics</i> , 2013, 113, 133906.	1.1	7
195	Magnetic Configurations and State Diagram of Nanoring Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , 2018, 10, .	1.5	7
196	Micromagnetic simulation of spin torque ferromagnetic resonance in nano-ring-shape confined magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2018, 113, 142406.	1.5	7
197	Microwave Spin-Torque-Induced Magnetic Resonance in a Nanoring-Shape-Confinde Magnetic Tunnel Junction. <i>Physical Review Applied</i> , 2018, 10, .	1.5	7
198	Advanced Method for the Reliable Estimation of Spin-Orbit-Torque Efficiency in Low-Coercivity Ferromagnetic Multilayers. <i>Physical Review Applied</i> , 2019, 11, .	1.5	7

#	ARTICLE	IF	CITATIONS
199	Regulating the anomalous Hall and Nernst effects in Heusler-based trilayers. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	7
200	Spin relaxation induced by interfacial effects in n-GaN/MgO/Co spin injectors. <i>RSC Advances</i> , 2020, 10, 12547-12553.	1.7	7
201	Magnonic skin effect and magnon valve effect in an antiferromagnetically coupled heterojunction. <i>Physical Review B</i> , 2021, 104, .	1.1	7
202	Current-Induced Manipulation of the Exchange Bias in a Pt/Co/NiO Structure. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42258-42265.	4.0	7
203	Orthogonal interlayer coupling in an all-antiferromagnetic junction. <i>Nature Communications</i> , 2022, 13, .	5.8	7
204	Magnetohistory effects and spin reorientations of Nd ₃ Fe ₂₉ xTx and Nd ₃ Fe ₂₉ xTxN ₄ (T=V and Cr) compounds. <i>Journal of Applied Physics</i> , 1997, 81, 5170-5172.	1.1	6
205	Oscillating Voltage Dependence of High-Frequency Impedance in Magnetic Tunneling Junctions. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 2812-2814.	1.2	6
206	Bias voltage dependence of tunnel magnetoimpedance in AlO _x -based magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	6
207	High-frequency switching of magnetic bistability in an asymmetric double disk nanostructure. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	6
208	Magnetic Field Annealing Effects on Magnetic Properties of Electrodeposited Co/Cu Multilayered Nanowires. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	1.2	6
209	Magneto-Seebeck effect in magnetic tunnel junctions with perpendicular anisotropy. <i>AIP Advances</i> , 2017, 7, 015035.	0.6	6
210	Thermally activated magnetization back-hopping based true random number generator in nano-ring magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	6
211	Chirality-Reversible Multistate Switching via Two Orthogonal Spin-Orbit Torques in a Perpendicularly Magnetized System. <i>Physical Review Applied</i> , 2020, 13, .	1.5	6
212	Piezoelectric Strain-Controlled Magnon Spin Current Transport in an Antiferromagnet. <i>Nano Letters</i> , 2022, 22, 4646-4653.	4.5	6
213	Tunneling current-induced butterfly-shaped domains and magnetization switching in DBMTJs. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 2636-2638.	1.2	5
214	Tunneling magnetoresistance in (Ga,Mn)As/Al ₂ O ₃ /CoFeB hybrid structures. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	5
215	Micromagnetic Studies of Co/Pt Multilayers With Perpendicular Anisotropy. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 3438-3441.	1.2	5
216	Room temperature spin injection into SiC via Schottky barrier. <i>Applied Physics Letters</i> , 2018, 113, 222402.	1.5	5

#	ARTICLE	IF	CITATIONS
217	Surface anisotropy induced spin wave nonreciprocity in epitaxial La _{0.33} Sr _{0.67} MnO ₃ film on SrTiO ₃ substrate. Applied Physics Letters, 2020, 117, .	1.5	5
218	Quantum theory of spin-torque driven magnetization switching. Physical Review B, 2021, 103, .	1.1	5
219	Electron-Phonon Interaction Enables Strong Thermoelectric Seebeck Effect Variation in Hybrid Nanoscale Systems. Journal of Physical Chemistry C, 2021, 125, 13167-13175.	1.5	5
220	Efficient Spin-Orbit-Torque Switching Assisted by an Effective Perpendicular Field in a Magnetic Trilayer. Physical Review Applied, 2021, 16, .	1.5	5
221	Ferromagnetic barrier induced large enhancement of tunneling magnetoresistance in van der Waals perpendicular magnetic tunnel junctions. Nanoscale, 2021, 13, 19993-20001.	2.8	5
222	Elliptical skyrmion moving along a track without transverse speed. Physical Review B, 2021, 104, .	1.1	5
223	Role of an in-plane ferromagnet in a T-type structure for field-free magnetization switching. Applied Physics Letters, 2022, 120, .	1.5	5
224	Antiferromagnetic-Metal/Ferromagnetic-Metal Periodic Multilayers for On-Chip Thermoelectric Generation. Physical Review Applied, 2022, 17, .	1.5	5
225	Bias voltage and temperature dependence of magneto-electric properties in double-barrier magnetic tunnel junction with amorphous Co-Fe-B electrodes. European Physical Journal B, 2006, 52, 205-208.	0.6	4
226	Tunnel Magnetoresistance Effect in $\text{CoFeB/MgAlO}_x/\text{CoFeB}$ Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2011, 47, 2716-2719.	1.2	4
227	Spin-dependent tunneling spectroscopy in MgO-based double-barrier magnetic tunnel junctions. Journal of Applied Physics, 2012, 111, 07C712.	1.1	4
228	Enhancement of magnetoresistance using CoFe/Ru/CoFe synthetic ferrimagnetic pinned layer in BiFeO ₃ based spin-valves. Applied Physics Letters, 2012, 101, 072901.	1.5	4
229	Co/Pt Multilayers on Self-Organized Hexagonal Patterned Nanodots. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	4
230	Giant ferroelectric modulation of barrier height and width in multiferroic tunnel junctions. Physical Review B, 2021, 103, .	1.1	4
231	Electrical detection of light helicity using a quantum-dot-based hybrid device at zero magnetic field. Physical Review Materials, 2020, 4, .	0.9	4
232	Comparison of spin-wave transmission in parallel and antiparallel magnetic configurations. Physical Review B, 2022, 105, .	1.1	4
233	Magnetic field dependence of voltage-current characteristics of Fe ₃ O ₄ thin films at room temperature. Applied Physics Letters, 2006, 88, 052506.	1.5	3
234	Temperature and Bias-Assisted Transport Properties of LSMO/AIO/CoFeB Magnetic Tunnel Junction. IEEE Transactions on Magnetics, 2010, 46, 2383-2386.	1.2	3

#	ARTICLE	IF	CITATIONS
235	Thickness dependence of magnetic and transport properties in organic-CoFe discontinuous multilayers. Journal of Applied Physics, 2010, 107, 09E307.	1.1	3
236	Magnetic Properties and Magnetic Domain Structures Evolution Modulated by CoFeB Layer in [Pd/Co]/CoFeB/MgO/CoFeB/[Co/Pd] Perpendicular MTJ Films. IEEE Transactions on Magnetics, 2012, 48, 2812-2815.	1.2	3
237	MgO-Based Double Barrier Magnetic Tunnel Junctions With Synthetic Antiferromagnetic Free Layer. IEEE Transactions on Magnetics, 2013, 49, 5204-5207.	1.2	3
238	Tailoring perpendicular magnetic anisotropy with graphene oxide membranes. RSC Advances, 2017, 7, 52938-52944.	1.7	3
239	Giant tunneling magnetoresistance induced by bias voltage in spin-filter van der Waals magnetic tunnel junctions with an interlayer antiferromagnetic semiconductor barrier. Physical Review B, 2021, 104, .	1.1	3
240	Anomalous anisotropic spin-wave propagation in thin manganite films with uniaxial magnetic anisotropy. Applied Physics Letters, 2022, 120, .	1.5	3
241	Microfabrication of magnetic tunnel junctions using Al as bottom conduction electrode. IEEE Transactions on Magnetics, 2003, 39, 2794-2796.	1.2	2
242	Influence of intrinsic electronic properties on light transmission through subwavelength holes on gold and MgB ₂ thin films. Physical Review B, 2011, 84, .	1.1	2
243	Surface and internal magnetic domain structures of Fe-Ga alloy rods. Science China Technological Sciences, 2013, 56, 36-39.	2.0	2
244	Organic-ferromagnetic hetero-structures with spin transport properties and fundamental physical effects. Science China: Physics, Mechanics and Astronomy, 2013, 56, 151-165.	2.0	2
245	Piezoelectric manipulation of Co/CoO exchange-bias bilayer system at low-temperature. Journal of Applied Physics, 2013, 114, 104108.	1.1	2
246	Preparation of a heteroepitaxial La _x Sr _y Mn _z O ₃ /BiFeO ₃ bilayer by r.f. magnetron sputtering with various oxygen gas flow ratios. AIP Advances, 2014, 4, 087133.	0.6	2
247	Low frequency noise peak near magnon emission energy in magnetic tunnel junctions. AIP Advances, 2014, 4, .	0.6	2
248	Experimental investigation and micromagnetic simulations of hybrid CoCr ₂ O ₄ /Ni coaxial nanostructures. Nanotechnology, 2018, 29, 245601.	1.3	2
249	Tunneling anisotropic magnetoresistance in fully epitaxial magnetic tunnel junctions with different barriers. Applied Physics Letters, 2018, 112, 242404.	1.5	2
250	Interlayer coupling in intrinsically magnetic bilayer ScO ₂ and NbN ₂ . Applied Physics Letters, 2020, 116, .	1.5	2
251	Materials, physics, and devices of spin-orbit torque effect. Applied Physics Letters, 2021, 118, 180401.	1.5	2
252	Type-Y magnetic tunnel junctions with CoFeB doped tungsten as spin current source. Applied Physics Letters, 2022, 120, .	1.5	2

#	ARTICLE	IF	CITATIONS
253	Local rotational symmetry effects on Fano resonances with constant non-resonant transmission channel. Applied Physics Letters, 2012, 101, 031114.	1.5	1
254	Perpendicular Exchange Bias of [Pt/Co]5/IrMn Multilayers on Self-Organized Hexagonally Patterned Nanodots. IEEE Magnetics Letters, 2015, 6, 1-4.	0.6	1
255	Spin seebeck and spin-dependent seebeck effect in ferromagnetic thin films. , 2016, , .		1
256	Ferromagnetic Relaxation and Magnetic Properties of Co40Fe40B20 Thin Films. Journal of Superconductivity and Novel Magnetism, 2017, 30, 469-473.	0.8	1
257	Temperature dependence of shot noise in double barrier magnetic tunnel junctions. Physical Review B, 2018, 97, .	1.1	1
258	Spin transport and dynamic properties of two-dimensional spin-momentum locked states. Europhysics Letters, 2020, 130, 58001.	0.7	1
259	Field-free programmable spin logics based on spin Hall effect. Applied Physics Letters, 2021, 119, .	1.5	1
260	Enhanced tunneling electroresistance effect by designing interfacial ferroelectric polarization in multiferroic tunnel junctions. Physical Review B, 2022, 105, .	1.1	1
261	Thermomagnetic Behavior and First Order Magnetization Processes of Sm ₃ Fe ₂₉ â€”xT _x and Sm ₃ Fe ₂₉ â€”xT _x N ₄ (T = V and Cr). Physica Status Solidi A, 1998, 168, 487-493.	1.7	0
262	Magnetic Properties of R ₃ Fe _{29-x} T _x and R ₃ Fe _{29-x} T _x N ₄ (R=Y, Ce, Nd, Sm, Gd, Tb, and Dy; T=V and) Tj ETQ 0 0 0 rBT /Overlo		
263	Comparison of the crystallographic and magnetic properties between Tb ₂ Fe _{16.46} Cr _{1.23} and Tb ₃ (Fe,Cr) ₂₉ single crystals. Journal of Materials Research, 1999, 14, 4195-4199.	1.2	0
264	Tunneling current-induced butterfly-shaped domains and magnetization switching in double-barrier magnetic tunnel junctions. , 2005, , .		0
265	Transmission properties of composite metamaterials in the terahertz domain. , 2008, , .		0
266	Structural and Magnetic Properties of LaPbMnO ₃ Nanowires. , 2010, , .		0
267	Nonlinear temperature dependent nucleation field in perpendicular exchange spring typed magnetic tunnel junctions. Journal of Applied Physics, 2013, 113, 17C113.	1.1	0
268	Generating Large Magnetic Field in a High Resolution Electron Beam Lithography. Microscopy and Microanalysis, 2015, 21, 1049-1050.	0.2	0
269	Influence of HfO ₂ interlayers on magnetocrystalline anisotropy in Fe MgO Fe magnetic tunnel junction: First-principles investigation. Journal of Applied Physics, 2019, 125, 233905.	1.1	0
270	Fabrication, structural and magnetic properties of one-dimensional anti-ferromagnetic FeMn nanostructures. AIP Advances, 2019, 9, 035225.	0.6	0

#	ARTICLE	IF	CITATIONS
271	Magnetic modulation of terahertz waves via spin-polarized electron tunneling. , 2021, , .		0
272	Research progress of spin light emitting diode. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 208501.	0.2	0