

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

129 papers	6,248 citations	36 h-index	77 g-index
142 ext. papers	7,792 ext. citations	8 avg, IF	5.57 L-index

#	Paper	IF	Citations
129	Magnetism. Blowing magnetic skyrmion bubbles. <i>Science</i> , <b>2015</b> , 349, 283-6	33.3	908
128	Magnetization switching through giant spin-orbit torque in a magnetically doped topological insulator heterostructure. <i>Nature Materials</i> , <b>2014</b> , 13, 699-704	27	616
127	Switching of perpendicular magnetization by spin-orbit torques in the absence of external magnetic fields. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 548-54	28.7	569
126	Direct observation of the skyrmion Hall effect. <i>Nature Physics</i> , <b>2017</b> , 13, 162-169	16.2	555
125	Room-Temperature Creation and Spin-Orbit Torque Manipulation of Skyrmions in Thin Films with Engineered Asymmetry. <i>Nano Letters</i> , <b>2016</b> , 16, 1981-8	11.5	211
124	Strong Rashba-Edelstein Effect-Induced Spin-Orbit Torques in Monolayer Transition Metal Dichalcogenide/Ferromagnet Bilayers. <i>Nano Letters</i> , <b>2016</b> , 16, 7514-7520	11.5	181
123	Electric-field control of spin-orbit torque in a magnetically doped topological insulator. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 352-9	28.7	170
122	Room-Temperature Skyrmion Shift Device for Memory Application. <i>Nano Letters</i> , <b>2017</b> , 17, 261-268	11.5	160
121	Proximity induced high-temperature magnetic order in topological insulator--ferrimagnetic insulator heterostructure. <i>Nano Letters</i> , <b>2014</b> , 14, 3459-65	11.5	156
120	Current-driven magnetization switching in a van der Waals ferromagnet FeGeTe. <i>Science Advances</i> , <b>2019</b> , 5, eaaw8904	14.3	119
119	Tailoring exchange couplings in magnetic topological-insulator/antiferromagnet heterostructures. <i>Nature Materials</i> , <b>2017</b> , 16, 94-100	27	108
118	Magnetization switching through spin-Hall-effect-induced chiral domain wall propagation. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	105
117	Temperature dependence of the voltage-controlled perpendicular anisotropy in nanoscale MgO CoFeB Ta magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 112410	3.4	92
116	Topological Hall effect at above room temperature in heterostructures composed of a magnetic insulator and a heavy metal. <i>Nature Electronics</i> , <b>2019</b> , 2, 182-186	28.4	73
115	Interfacial Dzyaloshinskii-Moriya Interaction: Effect of 5d Band Filling and Correlation with Spin Mixing Conductance. <i>Physical Review Letters</i> , <b>2018</b> , 120, 157204	7.4	73
114	. <i>IEEE Transactions on Magnetism</i> , <b>2015</b> , 51, 1-7	2	72
113	Room-Temperature Skyrmions in an Antiferromagnet-Based Heterostructure. <i>Nano Letters</i> , <b>2018</b> , 18, 980-986	11.5	68

112	Electric-field guiding of magnetic skyrmions. <i>Physical Review B</i> , <b>2015</b> , 92,	3-3	68
111	Enhancement of voltage-controlled magnetic anisotropy through precise control of Mg insertion thickness at CoFeB/MgO interface. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 052401	3-4	64
110	Strain-induced modulation of perpendicular magnetic anisotropy in Ta/CoFeB/MgO structures investigated by ferromagnetic resonance. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 072402	3-4	63
109	High Spin Hall Conductivity in Large-Area Type-II Dirac Semimetal PtTe. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000513	24	61
108	Current-driven perpendicular magnetization switching in Ta/CoFeB/[TaOx or MgO/TaOx] films with lateral structural asymmetry. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 102411	3-4	61
107	Magnon Valve Effect between Two Magnetic Insulators. <i>Physical Review Letters</i> , <b>2018</b> , 120, 097205	7-4	59
106	Room temperature ferromagnetism in ultra-thin van der Waals crystals of 1T-CrTe2. <i>Nano Research</i> , <b>2020</b> , 13, 3358-3363	10	59
105	Magneto-optical investigation of spin-orbit torques in metallic and insulating magnetic heterostructures. <i>Nature Communications</i> , <b>2015</b> , 6, 8958	17-4	55
104	Role of dimensional crossover on spin-orbit torque efficiency in magnetic insulator thin films. <i>Nature Communications</i> , <b>2018</b> , 9, 3612	17-4	53
103	Effect of the oxide layer on current-induced spin-orbit torques in Hf[CoFeB MgO and Hf[CoFeB TaOx structures. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 032406	3-4	51
102	Spin-orbit torques in perpendicularly magnetized Ir22Mn78/Co20Fe60B20/MgO multilayer. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 222401	3-4	51
101	Interfacial control of Dzyaloshinskii-Moriya interaction in heavy metal/ferromagnetic metal thin film heterostructures. <i>Physical Review B</i> , <b>2016</b> , 94,	3-3	50
100	Current-induced spin-orbit torque switching of perpendicularly magnetized Hf[CoFeB MgO and Hf[CoFeB TaOx structures. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 162409	3-4	48
99	Spin-Orbit Torque Switching of a Nearly Compensated Ferrimagnet by Topological Surface States. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901681	24	48
98	Dzyaloshinskii-Moriya Interaction across an Antiferromagnet-Ferromagnet Interface. <i>Physical Review Letters</i> , <b>2017</b> , 119, 027202	7-4	48
97	Exchange-biasing topological charges by antiferromagnetism. <i>Nature Communications</i> , <b>2018</b> , 9, 2767	17-4	46
96	Anatomy of Skyrmionic Textures in Magnetic Multilayers. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807683	24	41
95	Thermally stable voltage-controlled perpendicular magnetic anisotropy in Mo[CoFeB MgO structures. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 142403	3-4	39

94	. <i>Proceedings of the IEEE</i> , <b>2016</b> , 104, 1974-2008	14.3	36
93	Creating zero-field skyrmions in exchange-biased multilayers through X-ray illumination. <i>Nature Communications</i> , <b>2020</b> , 11, 949	17.4	34
92	Mobile N�l skyrmions at room temperature: status and future. <i>AIP Advances</i> , <b>2016</b> , 6, 055602	1.5	34
91	Lattice Dynamics, Phonon Chirality, and SpinPhonon Coupling in 2D Itinerant Ferromagnet Fe <sub>3</sub> GeTe <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904734	15.6	33
90	Topological Transitions Induced by Antiferromagnetism in a Thin-Film Topological Insulator. <i>Physical Review Letters</i> , <b>2018</b> , 121, 096802	7.4	32
89	Proximity-Induced Magnetic Order in a Transferred Topological Insulator Thin Film on a Magnetic Insulator. <i>ACS Nano</i> , <b>2018</b> , 12, 5042-5050	16.7	31
88	Spin-orbit torques: Materials, physics, and devices. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 120502	3.4	30
87	Joule Heating Effect on Field-Free Magnetization Switching by Spin-Orbit Torque in Exchange-Biased Systems. <i>Physical Review Applied</i> , <b>2017</b> , 7,	4.3	29
86	Effect of heavy metal layer thickness on spin-orbit torque and current-induced switching in Hf[CoFeB]MgO structures. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 022403	3.4	27
85	Exploring interfacial exchange coupling and sublattice effect in heavy metal/ferrimagnetic insulator heterostructures using Hall measurements, x-ray magnetic circular dichroism, and neutron reflectometry. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	26
84	Evolution of topological skyrmions across the spin reorientation transition in Pt/Co/Ta multilayers. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	25
83	1/f noise in MgO double-barrier magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 112504	3.4	24
82	Spin-torque ferromagnetic resonance measurements utilizing spin Hall magnetoresistance in W/Co <sub>40</sub> Fe <sub>40</sub> B <sub>20</sub> /MgO structures. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 202404	3.4	24
81	Enhanced voltage-controlled magnetic anisotropy in magnetic tunnel junctions with an MgO/PZT/MgO tunnel barrier. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 112402	3.4	24
80	Magnon valves based on YIG/NiO/YIG all-insulating magnon junctions. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	24
79	In-plane current-driven spin-orbit torque switching in perpendicularly magnetized films with enhanced thermal tolerance. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 212406	3.4	23
78	Deterministic Spin-Orbit Torque Switching by a Light-Metal Insertion. <i>Nano Letters</i> , <b>2020</b> , 20, 3703-3709	11.5	22
77	Strain-Mediated Spin-Orbit-Torque Switching for Magnetic Memory. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	21

76	Topology-Dependent Brownian Gyromotion of a Single Skyrmion. <i>Physical Review Letters</i> , <b>2020</b> , 125, 027206	7.4	20
75	Deficiency of the bulk spin Hall effect model for spin-orbit torques in magnetic-insulator/heavy-metal heterostructures. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	19
74	Competing effect of spin-orbit torque terms on perpendicular magnetization switching in structures with multiple inversion asymmetries. <i>Scientific Reports</i> , <b>2016</b> , 6, 23956	4.9	18
73	Efficient Excitation of High-Frequency Exchange-Dominated Spin Waves in Periodic Ferromagnetic Structures. <i>Physical Review Applied</i> , <b>2017</b> , 7,	4.3	17
72	Control of Spin-Wave Damping in YIG Using Spin Currents from Topological Insulators. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	17
71	Characterization of Spin-Orbit Torque Efficiency in Magnetic Heterostructures with Perpendicular Magnetic Anisotropy via Spin-Torque Ferromagnetic Resonance. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	17
70	Single-spin sensing of domain-wall structure and dynamics in a thin-film skyrmion host. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	16
69	Anomalous Nernst effect in Ir <sub>22</sub> Mn <sub>78</sub> /Co <sub>20</sub> Fe <sub>60</sub> B <sub>20</sub> /MgO layers with perpendicular magnetic anisotropy. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 222401	3.4	15
68	Effects of annealing on the magnetic properties and microstructures of Ta/Mo/CoFeB/MgO/Ta films. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 692, 243-248	5.7	15
67	Spin-Torque Ferromagnetic Resonance in W/CoFeB/W/CoFeB/MgO Stacks. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	15
66	Electric-field control of CoFeB/IrMn exchange bias system. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 064120	2.5	14
65	Electron Beam Lithography of Magnetic Skyrmions. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003003	2.4	14
64	Determining spin-torque efficiency in ferromagnetic metals via spin-torque ferromagnetic resonance. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	12
63	Record thermopower found in an IrMn-based spintronic stack. <i>Nature Communications</i> , <b>2020</b> , 11, 2023	17.4	12
62	Perspectives on exfoliated two-dimensional spintronics. <i>Journal of Semiconductors</i> , <b>2019</b> , 40, 081508	2.3	12
61	Magnetic memory driven by topological insulators. <i>Nature Communications</i> , <b>2021</b> , 12, 6251	17.4	12
60	Improved tunneling magnetoresistance in (Ga,Mn)As/AlO <sub>x</sub> /CoFeB magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 262501	3.4	11
59	Observation of large anomalous Nernst effect in 2D layered materials Fe <sub>3</sub> GeTe <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2019</b> , 115, 212402	3.4	11

58	Direct imaging of an inhomogeneous electric current distribution using the trajectory of magnetic half-skyrmions. <i>Science Advances</i> , <b>2020</b> , 6, eaay1876	14.3	10
57	Field sensing in MgO double barrier magnetic tunnel junctions with a superparamagnetic Co50Fe50 free layer. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 113906	2.5	10
56	Magnetic Skyrmions in a Hall Balance with Interfacial Canted Magnetizations. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907452	24	10
55	Colossal Anomalous Hall Effect in Ferromagnetic van der Waals CrTe. <i>ACS Nano</i> , <b>2021</b> , 15, 9759-9763	16.7	10
54	Correlation between the Dzyaloshinskii-Moriya interaction and spin-mixing conductance at an antiferromagnet/ferromagnet interface. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	10
53	Unidirectional Magneto-Resistance in Modulation-Doped Magnetic Topological Insulators. <i>Nano Letters</i> , <b>2019</b> , 19, 692-698	11.5	9
52	Predictive Materials Design of Magnetic Random-Access Memory Based on Nanoscale Atomic Structure and Element Distribution. <i>Nano Letters</i> , <b>2019</b> , 19, 8621-8629	11.5	9
51	NbI-Type Elliptical Skyrmions in a Laterally Asymmetric Magnetic Multilayer. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006924	24	9
50	Influence of inserted Mo layer on the thermal stability of perpendicularly magnetized Ta/Mo/Co20Fe60B20/MgO/Ta films. <i>AIP Advances</i> , <b>2016</b> , 6, 045107	1.5	8
49	Field-Free Spin-Orbit Torque Switching in Perpendicularly Magnetized Synthetic Antiferromagnets. <i>Advanced Functional Materials</i> , 2109455	15.6	7
48	Electrical detection of spin transport in Si two-dimensional electron gas systems. <i>Nanotechnology</i> , <b>2016</b> , 27, 365701	3.4	7
47	Fabrication and characterization of YIG nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 482, 358-363	2.8	6
46	Study of the perpendicular magnetic anisotropy, spin-orbit torque, and Dzyaloshinskii-Moriya interaction in the heavy metal/CoFeB bilayers with Ir22Mn78 insertion. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 242407	3.4	6
45	Formation and magnetic-field stability of magnetic dipole skyrmions and bubbles in a ferrimagnet. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 142404	3.4	6
44	Field free magnetization switching in perpendicularly magnetized Pt/Co/FeNi/Ta structure by spin orbit torque. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 142404	3.4	6
43	Robust Skyrmion Shift Device Through Engineering the Local Exchange-Bias Field. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	6
42	Exchange bias and spin-orbit torque in the Fe3GeTe2-based heterostructures prepared by vacuum exfoliation approach. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 262406	3.4	6
41	Generation and Hall effect of skyrmions enabled using nonmagnetic point contacts. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	6

40	Creation of a Chiral Bobber Lattice in Helimagnet-Multilayer Heterostructures. <i>Physical Review Letters</i> , <b>2021</b> , 126, 017204	7.4	6
39	Magnetic Configurations and State Diagram of Nanoring Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	6
38	Spin-orbit torques in structures with asymmetric damping layers. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 182403.4	3.4	5
37	Chirality-Reversible Multistate Switching via Two Orthogonal Spin-Orbit Torques in a Perpendicularly Magnetized System. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	5
36	Spin transmission in IrMn through measurements of spin Hall magnetoresistance and spin-orbit torque. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	5
35	Tunneling processes in asymmetric double barrier magnetic tunnel junctions with a thin top MgO layer. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 213909	2.5	5
34	Depth-Resolved Magnetization Dynamics Revealed by X-Ray Reflectometry Ferromagnetic Resonance. <i>Physical Review Letters</i> , <b>2020</b> , 125, 137201	7.4	5
33	Skyrmion-Based Programmable Logic Device with Complete Boolean Logic Functions. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	5
32	Enhancement of Spin-Orbit Torque by Strain Engineering in SrRuO <sub>3</sub> Films. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100380	15.6	5
31	Soft X-ray Ptychography for Imaging of Magnetic Domains and Skyrmions in Sub-100 nm Scales. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 34-35	0.5	5
30	The influence of an MgO nanolayer on the planar Hall effect in NiFe films. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 123908	2.5	4
29	Spin-dependent tunneling spectroscopy in MgO-based double-barrier magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07C712	2.5	4
28	Enhancement of the spin-orbit torque efficiency in W/Cu/CoFeB heterostructures via interface engineering. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 082409	3.4	4
27	Versatile Fabrication of Self-Aligned Nanoscale Hall Devices Using Nanowire Masks. <i>Nano Letters</i> , <b>2016</b> , 16, 3109-15	11.5	4
26	Gradual magnetization switching via domain nucleation driven by spin-orbit torque. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 032407	3.4	4
25	Implementation of Highly Reliable and Energy-Efficient Nonvolatile In-Memory Computing using Multistate Domain Wall Spin-Orbit Torque Device. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2200028	6	4
24	Interfacial spin transmission and spin-orbit torques in as-grown and annealed W/Co <sub>2</sub> FeAl/MgO multilayers. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 172406	3.4	3
23	High voltage-controlled magnetic anisotropy and interface magnetoelectric effect in sputtered multilayers annealed at high temperatures. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2020</b> , 63, 1	3.6	3



22	Large Room Temperature Charge-to-Spin Conversion Efficiency in Topological Insulator/CoFeB bilayers <b>2018</b> ,		3
21	Conductance enhancement due to interface magnons in electron-beam evaporated MgO magnetic tunnel junctions with CoFeB free layer deposited at different pressure. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 153905	2.5	3
20	MgO-Based Double Barrier Magnetic Tunnel Junctions With Synthetic Antiferromagnetic Free Layer. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 5204-5207	2	3
19	PATTERNED NANOSCALE MAGNETIC TUNNEL JUNCTIONS WITH DIFFERENT GEOMETRICAL STRUCTURES. <i>Spin</i> , <b>2011</b> , 01, 109-114	1.3	3
18	Implementation of complete Boolean logic functions in single spin-orbit torque device. <i>AIP Advances</i> , <b>2021</b> , 11, 015045	1.5	3
17	Interface control of domain wall depinning field. <i>AIP Advances</i> , <b>2018</b> , 8, 056314	1.5	2
16	Enhanced spin-orbit torque efficiency in Pt100% Ni x alloy based magnetic bilayer*. <i>Chinese Physics B</i> , <b>2021</b> , 30, 037503	1.2	2
15	Efficient Spin-Orbit-Torque Switching Assisted by an Effective Perpendicular Field in a Magnetic Trilayer. <i>Physical Review Applied</i> , <b>2021</b> , 16,	4.3	2
14	Magnetic two-dimensional van der Waals materials for spintronic devices. <i>Chinese Physics B</i> ,	1.2	2
13	SUPERCONDUCTIVITY-INDUCED PINNING EFFECT IN SUPERCONDUCTOR/MAGNETIC TUNNEL JUNCTIONS. <i>Spin</i> , <b>2013</b> , 03, 1350006	1.3	1
12	Superposition of Emergent Monopole and Antimonopole in CoTb Thin Films. <i>Physical Review Letters</i> , <b>2021</b> , 127, 217201	7.4	1
11	Skyrmions in magnetic thin film heterostructures. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2018</b> , 67, 131204	0.6	1
10	Field-free spin-orbit torque driven multi-state reversal in wedged Ta/MgO/CoFeB/MgO heterostructures. <i>APL Materials</i> , <b>2021</b> , 9, 071108	5.7	1
9	Twisted light induced magnetic anisotropy changes in an interlayer exchange coupling system. <i>Nanoscale Horizons</i> , <b>2021</b> , 6, 462-467	10.8	1
8	Anomalous anisotropic spin-wave propagation in thin manganite films with uniaxial magnetic anisotropy. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 192402	3.4	1
7	Type-Y magnetic tunnel junctions with CoFeB doped tungsten as spin current source. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 182405	3.4	1
6	Comprehensive Study of the Current-Induced Spin-Orbit Torque Perpendicular Effective Field in Asymmetric Multilayers. <i>Nanomaterials</i> , <b>2022</b> , 12, 1887	5.4	1
5	Field-free programmable spin logics based on spin Hall effect. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 212405	3.4	0



4	Role of an in-plane ferromagnet in a T-type structure for field-free magnetization switching. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 122402	3.4	o
3	High-Sensitivity Tunnel Magnetoresistance Sensors Based on Double Indirect and Direct Exchange Coupling Effect*. <i>Chinese Physics Letters</i> , <b>2021</b> , 38, 128501	1.8	o
2	Current controlled non-hysteresis magnetic switching in the absence of magnetic field. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 062402	3.4	
1	Ferromagnetic resonance linewidth broadening induced by a tunable inhomogeneity effect. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 517, 167215	2.8	