

Xiu Feng Han

List of Publications by Year in descending order

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272
papers

7,341
citations

53660

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284
docs citations

284
times ranked

6721
citing authors

#	ARTICLE	IF	CITATIONS
1	Field-Free Spin-Orbit Torque Switching in Perpendicularly Magnetized Synthetic Antiferromagnets. <i>Advanced Functional Materials</i> , 2022, 32, 2109455.	7.8	21
2	Comparison of spin-wave transmission in parallel and antiparallel magnetic configurations. <i>Physical Review B</i> , 2022, 105, .	1.1	4
3	Current-induced Néel order switching facilitated by magnetic phase transition. <i>Nature Communications</i> , 2022, 13, 1629.	5.8	13
4	Role of an in-plane ferromagnet in a T-type structure for field-free magnetization switching. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	5
5	A Van der Waals Interface Hosting Two Groups of Magnetic Skyrmions. <i>Advanced Materials</i> , 2022, 34, e2110583.	11.1	37
6	Field-free approaches for deterministic spin-orbit torque switching of the perpendicular magnet. <i>Materials Futures</i> , 2022, 1, 022201.	3.1	20
7	Enhanced tunneling electroresistance effect by designing interfacial ferroelectric polarization in multiferroic tunnel junctions. <i>Physical Review B</i> , 2022, 105, .	1.1	1
8	Antiferromagnetic-Metal/Ferromagnetic-Metal Periodic Multilayers for On-Chip Thermoelectric Generation. <i>Physical Review Applied</i> , 2022, 17, .	1.5	5
9	Anomalous anisotropic spin-wave propagation in thin manganite films with uniaxial magnetic anisotropy. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	3
10	Transition of laser-induced terahertz spin currents from torque- to conduction-electron-mediated transport. <i>Physical Review B</i> , 2022, 105, .	1.1	17
11	Type-Y magnetic tunnel junctions with CoFeB doped tungsten as spin current source. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	2
12	Piezoelectric Strain-Controlled Magnon Spin Current Transport in an Antiferromagnet. <i>Nano Letters</i> , 2022, 22, 4646-4653.	4.5	6
13	Orthogonal interlayer coupling in an all-antiferromagnetic junction. <i>Nature Communications</i> , 2022, 13, .	5.8	7
14	Magnetic properties and the interfacial Dzyaloshinskii-Moriya interaction in exchange biased Pt/Co/NixOy films. <i>Applied Surface Science</i> , 2021, 543, 148720.	3.1	14
15	Gradual magnetization switching via domain nucleation driven by spin-orbit torque. <i>Applied Physics Letters</i> , 2021, 118, 032407.	1.5	11
16	Néel-Type Elliptical Skyrmions in a Laterally Asymmetric Magnetic Multilayer. <i>Advanced Materials</i> , 2021, 33, e2006924.	11.1	32
17	Magnon valve effect and resonant transmission in a one-dimensional magnonic crystal. <i>Physical Review B</i> , 2021, 103, .	1.1	11
18	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

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19	Quantum theory of spin-torque driven magnetization switching. <i>Physical Review B</i> , 2021, 103, .	1.1	5
20	Spin-orbit torques: Materials, physics, and devices. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	100
21	Giant tunneling magnetoresistance in van der Waals magnetic tunnel junctions formed by interlayer antiferromagnetic bilayer CoBr_2 . <i>Physical Review B</i> , 2021, 103, .	1.1	17
22	Large spin to charge conversion in antiferromagnetic Weyl semimetal Mn ₃ Sn. <i>APL Materials</i> , 2021, 9, .	2.2	11
23	Materials, physics, and devices of spin-orbit torque effect. <i>Applied Physics Letters</i> , 2021, 118, 180401.	1.5	2
24	Tunable Damping in Magnetic Nanowires Induced by Chiral Pumping of Spin Waves. <i>ACS Nano</i> , 2021, 15, 9076-9083.	7.3	12
25	Electron-Phonon Interaction Enables Strong Thermoelectric Seebeck Effect Variation in Hybrid Nanoscale Systems. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13167-13175.	1.5	5
26	Skyrmion-Based Programmable Logic Device with Complete Boolean Logic Functions. <i>Physical Review Applied</i> , 2021, 15, .	1.5	34
27	Exchange bias and spin-orbit torque in the Fe ₃ GeTe ₂ -based heterostructures prepared by vacuum exfoliation approach. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	27
28	Giant ferroelectric modulation of barrier height and width in multiferroic tunnel junctions. <i>Physical Review B</i> , 2021, 103, .	1.1	4
29	Efficient Spin-Orbit-Torque Switching Assisted by an Effective Perpendicular Field in a Magnetic Trilayer. <i>Physical Review Applied</i> , 2021, 16, .	1.5	5
30	Enhancement of Spin-Orbit Torque by Strain Engineering in SrRuO ₃ Films. <i>Advanced Functional Materials</i> , 2021, 31, 2100380.	7.8	26
31	Reconfigurable Spin-Wave Interferometer at the Nanoscale. <i>Nano Letters</i> , 2021, 21, 6237-6244.	4.5	20
32	Magnonic skin effect and magnon valve effect in an antiferromagnetically coupled heterojunction. <i>Physical Review B</i> , 2021, 104, .	1.1	7
33	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
34	Magnetic two-dimensional van der Waals materials for spintronic devices*. <i>Chinese Physics B</i> , 2021, 30, 118504.	0.7	20
35	Switching the perpendicular magnetization of a magnetic insulator by magnon transfer torque. <i>Physical Review B</i> , 2021, 104, .	1.1	11
36	Nonreciprocal coherent coupling of nanomagnets by exchange spin waves. <i>Nano Research</i> , 2021, 14, 2133-2138.	5.8	26

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37	Magnetic modulation of terahertz waves via spin-polarized electron tunneling. , 2021, , .		0
38	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
39	Sub-50nm wavelength spin waves excited by low-damping Co ₂₅ Fe ₇₅ nanowires. Applied Physics Letters, 2021, 119, .	1.5	10
40	Magnetic memory driven by topological insulators. Nature Communications, 2021, 12, 6251.	5.8	67
41	Ferromagnetic barrier induced large enhancement of tunneling magnetoresistance in van der Waals perpendicular magnetic tunnel junctions. Nanoscale, 2021, 13, 19993-20001.	2.8	5
42	Field-free programmable spin logics based on spin Hall effect. Applied Physics Letters, 2021, 119, .	1.5	1
43	Elliptical skyrmion moving along a track without transverse speed. Physical Review B, 2021, 104, .	1.1	5
44	Magnon junction effect in Y ₃ Fe ₅ O ₁₂ /CoO/Y ₃ Fe ₅ O ₁₂ insulating heterostructures. Applied Physics Letters, 2021, 119, .	1.5	9
45	Superposition of Emergent Monopole and Antimonopole in CoTb Thin Films. Physical Review Letters, 2021, 127, 217201.	2.9	10
46	Long decay length of magnon-polarons in BiFeO ₃ /La _{0.67} Sr _{0.33} MnO ₃ heterostructures. Nature Communications, 2021, 12, 7258.	5.8	15
47	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
48	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
49	Robust Skyrmion Shift Device Through Engineering the Local Exchange-Bias Field. Physical Review Applied, 2020, 14, .	1.5	12
50	Magnetic Modulation of Terahertz Waves via Spin-Polarized Electron Tunneling Based on Magnetic Tunnel Junctions. Physical Review Applied, 2020, 14, .	1.5	12
51	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
52	Néel-type skyrmion in WTe ₂ /Fe ₃ GeTe ₂ van der Waals heterostructure. Nature Communications, 2020, 11, 3860.	5.8	208
53	Regulating the anomalous Hall and Nernst effects in Heusler-based trilayers. Applied Physics Letters, 2020, 117, .	1.5	7
54	Magnon Blocking Effect in an Antiferromagnet-Spaced Magnon Junction. Physical Review Applied, 2020, 14, .	1.5	12

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55	Room temperature ferromagnetism in ultra-thin van der Waals crystals of 1T-CrTe ₂ . Nano Research, 2020, 13, 3358-3363.	5.8	175
56	Electron Beam Lithography of Magnetic Skyrmions. Advanced Materials, 2020, 32, e2003003.	11.1	30
57	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
58	Magnetic asymmetry induced anomalous spin-orbit torque in IrMn. Physical Review B, 2020, 101, .	1.1	36
59	Electrical switching of perpendicular magnetization in a single ferromagnetic layer. Physical Review B, 2020, 101, .	1.1	66
60	A nonlocal spin Hall magnetoresistance in a platinum layer deposited on a magnon junction. Nature Electronics, 2020, 3, 304-308.	13.1	32
61	Spin relaxation induced by interfacial effects in n-GaN/MgO/Co spin injectors. RSC Advances, 2020, 10, 12547-12553.	1.7	7
62	Current-Induced In-Plane Magnetization Switching in a Biaxial Ferrimagnetic Insulator. Physical Review Applied, 2020, 13, .	1.5	14
63	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
64	Three-Dimensional Dynamics of a Magnetic Hopfion Driven by Spin Transfer Torque. Physical Review Letters, 2020, 124, 127204.	2.9	56
65	Deterministic Spin-Orbit Torque Switching by a Light-Metal Insertion. Nano Letters, 2020, 20, 3703-3709.	4.5	52
66	Interlayer coupling in intrinsically magnetic bilayer ScO ₂ and NbN ₂ . Applied Physics Letters, 2020, 116, .	1.5	2
67	High Spin Hall Conductivity in Large-Area Type-II Dirac Semimetal PtTe ₂ . Advanced Materials, 2020, 32, e2000513.	11.1	117
68	Chirality-Reversible Multistate Switching via Two Orthogonal Spin-Orbit Torques in a Perpendicularly Magnetized System. Physical Review Applied, 2020, 13, .	1.5	6
69	Creating zero-field skyrmions in exchange-biased multilayers through X-ray illumination. Nature Communications, 2020, 11, 949.	5.8	67
70	Determining spin-torque efficiency in ferromagnetic metals via spin-torque ferromagnetic resonance. Physical Review B, 2020, 101, .	1.1	26
71	Chiral Spin-Wave Velocities Induced by All-Garnet Interfacial Dzyaloshinskii-Moriya Interaction in Ultrathin Yttrium Iron Garnet Films. Physical Review Letters, 2020, 124, 027203.	2.9	80
72	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

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73	Spin transmission in IrMn through measurements of spin Hall magnetoresistance and spin-orbit torque. <i>Physical Review B</i> , 2020, 101, .	1.1	11
74	Record thermopower found in an IrMn-based spintronic stack. <i>Nature Communications</i> , 2020, 11, 2023.	5.8	16
75	Formation and magnetic-field stability of magnetic dipole skyrmions and bubbles in a ferrimagnet. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	9
76	All-electrical manipulation of magnetization in magnetic tunnel junction via spin-orbit torque. <i>Applied Physics Letters</i> , 2020, 116, 162401.	1.5	34
77	Evidence of magnetization switching by anomalous spin Hall torque in NiFe. <i>Physical Review B</i> , 2020, 101, .	1.1	19
78	Electrical detection of light helicity using a quantum-dot-based hybrid device at zero magnetic field. <i>Physical Review Materials</i> , 2020, 4, .	0.9	4
79	Spin transport and dynamic properties of two-dimensional spin-momentum locked states. <i>Europhysics Letters</i> , 2020, 130, 58001.	0.7	1
80	Research progress of spin light emitting diode. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 208501.	0.2	0
81	Magnetic-field-free terahertz emission from a magnetic tunneling junction. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 090913.	0.8	10
82	Spin-Orbit Torque Switching of a Nearly Compensated Ferrimagnet by Topological Surface States. <i>Advanced Materials</i> , 2019, 31, e1901681.	11.1	81
83	First-principles prediction of switchable metallic ferroelectricity in multiferroic tunnel junctions. <i>Physical Review B</i> , 2019, 99, .	1.1	8
84	Current-driven magnetization switching in a van der Waals ferromagnet Fe_3GeTe_2 . <i>Science Advances</i> , 2019, 5, eaaw8904.	4.7	239
85	Spin-orbit torque switching in a T-type magnetic configuration with current orthogonal to easy axes. <i>Nature Communications</i> , 2019, 10, 233.	5.8	91
86	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
87	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
88	Influence of HfO ₂ interlayers on magnetocrystalline anisotropy in Fe MgO Fe magnetic tunnel junction: First-principles investigation. <i>Journal of Applied Physics</i> , 2019, 125, 233905.	1.1	0
89	Strain controlling transport properties of heterostructure composed of monolayer CrI ₃ . <i>Applied Physics Letters</i> , 2019, 114, .	1.5	31
90	Large spin-orbit torque efficiency enhanced by magnetic structure of collinear antiferromagnet IrMn. <i>Science Advances</i> , 2019, 5, eaau6696.	4.7	70

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91	Spin-orbit torque switching in perpendicular Y3Fe5O12/Pt bilayer. Applied Physics Letters, 2019, 114, .	1.5	47
92	Thermally activated magnetization back-hopping based true random number generator in nano-ring magnetic tunnel junctions. Applied Physics Letters, 2019, 114, .	1.5	6
93	Fabrication, structural and magnetic properties of one-dimensional anti-ferromagnetic FeMn nanostructures. AIP Advances, 2019, 9, 035225.	0.6	0
94	Giant Enhancements of Perpendicular Magnetic Anisotropy and Spin-Orbit Torque by a MoS ₂ Layer. Advanced Materials, 2019, 31, e1900776.	11.1	65
95	Coherent Resonant Tunneling through Double Metallic Quantum Well States. Nano Letters, 2019, 19, 3019-3026.	4.5	22
96	Strategy for Fabricating Wafer-Scale Platinum Disulfide. ACS Applied Materials & Interfaces, 2019, 11, 8202-8209.	4.0	37
97	Anatomy of Skyrmionic Textures in Magnetic Multilayers. Advanced Materials, 2019, 31, e1807683.	11.1	75
98	Room-Temperature Spin-Orbit Torque from Topological Surface States. Physical Review Letters, 2019, 123, 207205.	2.9	129
99	Observation of large anomalous Nernst effect in 2D layered materials Fe ₃ GeTe ₂ . Applied Physics Letters, 2019, 115, .	1.5	20
100	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
101	Giant nonvolatile manipulation of magnetoresistance in magnetic tunnel junctions by electric fields via magnetoelectric coupling. Nature Communications, 2019, 10, 243.	5.8	94
102	Nonmetallic Atoms Induced Magnetic Anisotropy in Monolayer Chromium Trihalides. Journal of Physical Chemistry C, 2019, 123, 691-697.	1.5	33
103	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
104	Magnon Valve Effect between Two Magnetic Insulators. Physical Review Letters, 2018, 120, 097205.	2.9	97
105	Threshold magnetoresistance in anisotropic magnetic 2D transition metal dichalcogenides. Journal of Materials Chemistry C, 2018, 6, 3058-3064.	2.7	9
106	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
107	Spatially Resolved Electric-Field Manipulation of Magnetism for CoFeB Mesoscopic Discs on Ferroelectrics. Advanced Functional Materials, 2018, 28, 1706448.	7.8	35
108	Room-Temperature Skyrmions in an Antiferromagnet-Based Heterostructure. Nano Letters, 2018, 18, 980-986.	4.5	98

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109	Atomic-scale understanding of high thermal stability of the Mo/CoFeB/MgO spin injector for spin-injection in remanence. <i>Nanoscale</i> , 2018, 10, 10213-10220.	2.8	16
110	Experimental investigation and micromagnetic simulations of hybrid CoCr2O4/Ni coaxial nanostructures. <i>Nanotechnology</i> , 2018, 29, 245601.	1.3	2
111	Temperature dependence of shot noise in double barrier magnetic tunnel junctions. <i>Physical Review B</i> , 2018, 97, .	1.1	1
112	Large magnetic anisotropy and its strain modulation in two-dimensional intrinsic ferromagnetic monolayer RuO ₂ and OsO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28162-28168.	1.3	26
113	Magnetic Configurations and State Diagram of Nanoring Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , 2018, 10, .	1.5	7
114	Room temperature spin injection into SiC via Schottky barrier. <i>Applied Physics Letters</i> , 2018, 113, 222402.	1.5	5
115	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
116	Spin-Torque Ferromagnetic Resonance in $W/Co/Ni$ Multilayers	1.5	23
117	Study of spin-orbit torque induced magnetization switching in synthetic antiferromagnet with ultrathin Ta spacer layer. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	19
118	Magnon valves based on YIG/NiO/YIG all-insulating magnon junctions. <i>Physical Review B</i> , 2018, 98, .	1.1	48
119	Microwave Spin-Torque-Induced Magnetic Resonance in a Nanoring-Shape-Confined Magnetic Tunnel Junction. <i>Physical Review Applied</i> , 2018, 10, .	1.5	7
120	Role of dimensional crossover on spin-orbit torque efficiency in magnetic insulator thin films. <i>Nature Communications</i> , 2018, 9, 3612.	5.8	84
121	Novel Cascadable Magnetic Majority Gates for Implementing Comprehensive Logic Functions. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 4687-4693.	1.6	8
122	Ultrahigh Tunneling-Magnetoresistance Ratios in Nitride-Based Perpendicular Magnetic Tunnel Junctions from First Principles. <i>Physical Review Applied</i> , 2018, 9, .	1.5	22
123	Field-Free Programmable Spin Logics via Chirality-Induced Reversible Spin-Orbit Torque Switching. <i>Advanced Materials</i> , 2018, 30, e1801318.	11.1	91
124	Tunneling anisotropic magnetoresistance in fully epitaxial magnetic tunnel junctions with different barriers. <i>Applied Physics Letters</i> , 2018, 112, 242404.	1.5	2
125	Experimental demonstration of programmable multi-functional spin logic cell based on spin Hall effect. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 428, 401-405.	1.0	20
126	Programmable Spin Logic Based on Spin Hall Effect in a Single Device. <i>Advanced Electronic Materials</i> , 2017, 3, 1600282.	2.6	59

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127	Controllable synthesis of ferromagnetic“antiferromagnetic core”shell NWs with tunable magnetic properties. <i>Nanoscale</i> , 2017, 9, 5694-5700.	2.8	16
128	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
129	Magneto-Seebeck effect in magnetic tunnel junctions with perpendicular anisotropy. <i>AIP Advances</i> , 2017, 7, 015035.	0.6	6
130	Spatially Resolved Ferroelectric Domain-Switching-Controlled Magnetism in Co ₄₀ Fe ₄₀ B ₂₀ /Pb(Mg _{1/3} Nb _{2/3}) _{0.7} Ta _{0.3} O ₃ Multiferroic Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2642-2649.	4.0	34
131	Room-Temperature Skyrmion Shift Device for Memory Application. <i>Nano Letters</i> , 2017, 17, 261-268.	4.5	227
132	Noise suppression and sensitivity manipulation of magnetic tunnel junction sensors with soft magnetic Co _{70.5} Fe _{4.5} Si ₁₅ B ₁₀ layer. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	28
133	Tunneling anisotropic magnetoresistance driven by magnetic phase transition. <i>Nature Communications</i> , 2017, 8, 449.	5.8	49
134	Thickness dependence of anomalous Nernst coefficient and longitudinal spin Seebeck effect in ferromagnetic NixFe _{100-x} films. <i>Scientific Reports</i> , 2017, 7, 6175.	1.6	26
135	Large magnetic anisotropy and strain induced enhancement of magnetic anisotropy in monolayer TaTe ₂ . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24341-24347.	1.3	48
136	Tailoring perpendicular magnetic anisotropy with graphene oxide membranes. <i>RSC Advances</i> , 2017, 7, 52938-52944.	1.7	3
137	First-principles study of MnAl for its application in MgO-based perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	19
138	Strain induced enhancement of perpendicular magnetic anisotropy in Co/graphene and Co/BN heterostructures. <i>Physical Review B</i> , 2017, 95, .	1.1	89
139	Ferromagnetic Relaxation and Magnetic Properties of Co ₄₀ Fe ₄₀ B ₂₀ Thin Films. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 469-473.	0.8	1
140	Structural and Magnetic Response in Bimetallic Core/Shell Magnetic Nanoparticles. <i>Nanomaterials</i> , 2016, 6, 72.	1.9	12
141	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
142	In-plane current-driven spin-orbit torque switching in perpendicularly magnetized films with enhanced thermal tolerance. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	26
143	Curvature-enhanced Spin-orbit Coupling and Spinterface Effect in Fullerene-based Spin Valves. <i>Scientific Reports</i> , 2016, 6, 19461.	1.6	46
144	Field-free spin Hall effect driven magnetization switching in Pd/Co/IrMn exchange coupling system. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	48

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145	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
146	Enhanced exchange bias and improved ferromagnetic properties in Permalloy/BiFe _{0.95} Co _{0.05} O ₃ core-shell nanostructures. Scientific Reports, 2016, 5, 18203.	1.6	27
147	Strong Electrical Manipulation of Spin-Orbit Torque in Ferromagnetic Heterostructures. Advanced Electronic Materials, 2016, 2, 1600219.	2.6	37
148	Electrical control over perpendicular magnetization switching driven by spin-orbit torques. Physical Review B, 2016, 94, .	1.1	40
149	Scaling relation between anomalous Nernst and Hall effect in Pt/ferromagnetic heterostructures. Physical Review B, 2016, 93, .	1.1	76
150	Observation of magnon-mediated electric current drag at room temperature. Physical Review B, 2016, 93, .	1.1	76
151	Diameter-dependent multiferroic functionality in hybrid core/shell NWs. Nanoscale, 2016, 8, 14956-14964.	2.8	11
152	Spin seebeck and spin-dependent seebeck effect in ferromagnetic thin films. , 2016, , .		1
153	Manipulation of magnetization switching and tunnel magnetoresistance via temperature and voltage control. Scientific Reports, 2016, 5, 18269.	1.6	14
154	Electric-Field Control of Magnetism in Co ₄₀ Fe ₄₀ B ₂₀ /(1-x)Pb(Mg _{1/3} Nb _{2/3})O ₃ -xPbTiO ₃ Multiferroic Heterostructures with Different Ferroelectric Phases. ACS Applied Materials & Interfaces, 2016, 8, 3784-3791.	4.0	31
155	Magnetic response of hybrid ferromagnetic and antiferromagnetic core-shell nanostructures. Nanoscale, 2016, 8, 6064-6070.	2.8	25
156	Ferroelastic switching in a layered-perovskite thin film. Nature Communications, 2016, 7, 10636.	5.8	97
157	Zero-field spin transfer oscillators based on magnetic tunnel junction having perpendicular polarizer and planar free layer. AIP Advances, 2016, 6, 125305.	0.6	8
158	Observation of pure inverse spin Hall effect in ferromagnetic metals via ferromagnetic/antiferromagnetic exchange-bias structures. Physical Review B, 2015, 92, .	1.1	38
159	Long-Range Phase Coherence in Double-Barrier Magnetic Tunnel Junctions with a Large Thick Metallic Quantum Well. Physical Review Letters, 2015, 115, 157204.	2.9	37
160	Spin gapless semiconductor like Ti ₂ MnAl film as a new candidate for spintronics application. Physica Status Solidi - Rapid Research Letters, 2015, 9, 641-645.	1.2	70
161	Polarization-Mediated Thermal Stability of Metal/Oxide Heterointerface. Advanced Materials, 2015, 27, 6934-6938.	11.1	19
162	Generating Large Magnetic Field in a High Resolution Electron Beam Lithography. Microscopy and Microanalysis, 2015, 21, 1049-1050.	0.2	0

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163	Spin Hall Magnetoresistance in CoFe ₂ O ₄ /Pt Films. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	8
164	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
165	Influence of cobalt doping on structural and magnetic properties of BiFeO ₃ nanoparticles. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	57
166	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
167	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
168	High-frequency switching of magnetic bistability in an asymmetric double disk nanostructure. Applied Physics Letters, 2014, 104, .	1.5	6
169	ORGANIC SPINTRONICS: PAST, PRESENT AND FUTURE. Spin, 2014, 04, 1440013.	0.6	10
170	Spin dependent transport properties of Mn-Ga/MgO/Mn-Ga magnetic tunnel junctions with metal(Mg.) Tunneling and Spin Transport in Nanoscale Systems / Overlock 10	1.1	8
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