

Jun Miao

List of Publications by Year in Descending Order

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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.

109
papers

975
citations

18
h-index

25
g-index

122
ext. papers

1,127
ext. citations

3.3
avg, IF

4.08
L-index

#	Paper	IF	Citations
109	Room temperature spin Hall magnetoresistance at a hetero-interface between multiferroic Bi1.05La0.05FeO3 and heavy-metal Pt. <i>Applied Physics Letters</i> , 2022 , 120, 062406	3.4	0
108	Self-rectifying and forming-free resistive switching behaviors in Pt/La2Ti2O7/Pt structure. <i>Ceramics International</i> , 2021 , 48, 4693-4693	5.1	0
107	Impact of patterning processes on spin Hall magnetoresistance in Pt/YIG structures. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, 110901	1.4	0
106	Enhancement of the lower critical field in FeSe-coated Nb structures for superconducting radio-frequency applications. <i>Superconductor Science and Technology</i> , 2021 , 34, 015001	3.1	2
105	The anisotropy of spin Hall magnetoresistance in Pt/YIG structures. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	2
104	Geometric size dependence of spin-mixing conductance at Pt/YIG interface. <i>Applied Physics Letters</i> , 2021 , 118, 222402	3.4	1
103	Interface-driven electrical magnetochiral anisotropy in Pt/PtMnGa bilayers. <i>Applied Physics Letters</i> , 2021 , 118, 252403	3.4	1
102	Influence of heavy-metal capping layers on perpendicular magnetic anisotropy and spin-orbit torques of Pt/Co/HM stacks structures. <i>Solid State Communications</i> , 2021 , 332, 114340	1.6	1
101	Magnetic Coupling in Y3Fe5O12/Gd3Fe5O12 Heterostructures. <i>Physical Review Applied</i> , 2021 , 16,	4.3	4
100	Enhanced ferroelectric and photoelectric properties in lead-free Bi1.07FeO3-modified K0.5Na0.5NbO3 thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 2051-2060	2.1	0
99	Facile synthesis of ultrasmall MnFe2O4 nanoparticles with high saturation magnetization for magnetic resonance imaging. <i>Ceramics International</i> , 2021 ,	5.1	3
98	Tailoring large magnetoresistance in Dirac semimetal SrIrO3 films. <i>Applied Physics Letters</i> , 2021 , 119, 112402	3.4	0
97	Unusual anomalous Hall effect in perpendicularly magnetized YIG films with a small Gilbert damping constant. <i>Physical Review B</i> , 2020 , 101,	3.3	8
96	Spin-orbit torque in antiferromagnetically coupled Co and Tb multilayers. <i>Physica Scripta</i> , 2020 , 95, 075802	3.2	1
95	Nonvolatile Ferroelectric Field Control of the Anomalous Hall Effect in BiFeO3/SrRuO3 Bilayer. <i>Physical Review Applied</i> , 2020 , 13,	4.3	8
94	High nonvolatile modulation of resistance on a ferroelectric PbZr0.12Ti0.88O3 /Nd0.3Sm0.25Sr0.45MnO3 liquid-gated electric-double-layer transistors. <i>Solid State Communications</i> , 2020 , 309, 113848	1.6	0
93	Crystalline and magnetic structures, magnetization, heat capacity, and anisotropic magnetostriction effect in a yttrium-chromium oxide. <i>Physical Review Materials</i> , 2020 , 4,	3.2	4

92	Perpendicular magnetic anisotropy and magnetization process of ferrimagnetic CoFeB/Tb multilayer films. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, 080905	1.4	1
91	Disorder dependent spin-orbit torques in L10 FePt single layer. <i>Applied Physics Letters</i> , 2020 , 117, 242403	3.4	6
90	The influence of perpendicular exchange bias on current-induced magnetization switching. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 475001	3	1
89	High endurance of bipolar resistive switching in a Pt/LaNiO ₃ /Nb:SrZrO ₃ /Cu stack: The role of Cu modulating layer. <i>Chemical Physics Letters</i> , 2020 , 739, 137040	2.5	1
88	Robust spin-orbit torques in ferromagnetic multilayers with weak bulk spin Hall effect. <i>Applied Physics Letters</i> , 2020 , 117, 122401	3.4	1
87	Resistive-switching tunability with size-dependent all-inorganic zero-dimensional tetrahedrite quantum dots. <i>Science China Materials</i> , 2020 , 63, 2497-2508	7.1	3
86	Self-Assembled Hexagonal Lu _{1-x} In _x FeO ₃ Nanopillars Embedded in Orthorhombic Lu _{1-x} In _x FeO ₃ Nanoparticle Matrixes as Room-Temperature Multiferroic Thin Films for Memory Devices and Spintronic Applications. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7516-7523	5.6	2
85	Spin-orbit torque-induced multiple magnetization switching behaviors in synthetic antiferromagnets. <i>Applied Physics Letters</i> , 2020 , 117, 112401	3.4	10
84	Intrinsic Mechanism for Anisotropic Magnetoresistance and Experimental Confirmation in Co _x Fe _{1-x} Single-Crystal Films. <i>Physical Review Letters</i> , 2020 , 125, 097201	7.4	14
83	Spin Logical and Memory Device Based on the Nonvolatile Ferroelectric Control of the Perpendicular Magnetic Anisotropy in PbZr _{0.2} Ti _{0.8} O ₃ /Co/Pt Heterostructure. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000102	6.4	7
82	Lateral Electric-Field-Controlled Perpendicular Magnetic Anisotropy and Current-Induced Magnetization Switching in Multiferroic Heterostructures. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000229	6.4	2
81	Temperature dependence of spin Hall magnetoresistance in a Cr ₂ O ₃ film with a TaO _x buffer layer. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 060911	1.4	2
80	Strain-Controlled Giant Magnetoresistance in Spin Valves Grown on Shape Memory Alloys. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 910-918	4	2
79	Coexistence of dielectric relaxation and magnetic relaxation in compressively strained BiFeO ₃ /Ba _{0.7} Sr _{0.3} TiO ₃ superlattices. <i>Applied Physics Letters</i> , 2019 , 114, 112902	3.4	4
78	Spin-orbit torque and spin Hall magnetoresistance in Pt/Co/Ru/AlO _x multilayers with modifying spin transport at interfaces. <i>Physica Scripta</i> , 2019 , 94, 085703	2.6	1
77	Temperature dependent rectification of La _{0.7} Sr _{0.3} MnO ₃ /PbZr _{0.2} Ti _{0.8} O ₃ /La _{0.7} Te _{0.3} MnO ₃ perovskite p-i-n junctions with ferroelectric barrier. <i>Chemical Physics Letters</i> , 2019 , 721, 68-73	2.5	2
76	Temperature dependent transport properties and rectification in La _{0.7} Sr _{0.3} MnO ₃ /La _{0.7} Te _{0.3} MnO ₃ p-n junctions. <i>Applied Physics Express</i> , 2019 , 12, 051013	2.4	2
75	Tuning Effective Spin Hall Angles via Oxygen Vacancies in Multiferroic BiFeO ₃ -Based Heterostructures. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900435	6.4	1

74	Giant enhancement of critical current density at high field in superconducting (Li,Fe)OHFeSe films by Mn doping. <i>Superconductor Science and Technology</i> , 2019 , 32, 12LT01	3.1	6
73	Interface-driven unusual anomalous Hall effect in MnxGa/Pt bilayers. <i>Physical Review B</i> , 2019 , 100,	3.3	5
72	Comparative measurements of local and nonlocal spin Seebeck effect in YIG/Pt nano-thick films. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 476, 166-170	2.8	2
71	Enhanced spin-orbit torque in Pt/Co/Pt multilayers with inserting Ru layers. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 472, 14-19	2.8	6
70	Robust emergence of a topological Hall effect in MnGa/heavy metal bilayers. <i>Physical Review B</i> , 2018 , 97,	3.3	12
69	The dominance of damping like torque for the current induced magnetization switching in Pt/Co/W multilayers. <i>Solid State Communications</i> , 2018 , 274, 41-45	1.6	10
68	Negative spin Hall magnetoresistance in antiferromagnetic Cr2O3/Ta bilayer at low temperature region. <i>Applied Physics Letters</i> , 2018 , 112, 232404	3.4	32
67	Magnon-Dragged Magnetoresistance and Spin Seebeck Effect in YIG/IrMn Thin Films. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	1
66	Large modulation of perpendicular magnetic anisotropy in a BiFeO3/Al2O3/Pt/Co/Pt multiferroic heterostructure via spontaneous polarizations. <i>Applied Physics Letters</i> , 2018 , 113, 062401	3.4	6
65	High resistance ratio of bipolar resistive switching in a multiferroic/high-K Bi(Fe0.95Cr0.05)O3/ZrO2/Pt heterostructure. <i>Applied Surface Science</i> , 2018 , 434, 687-692	6.7	8
64	Exchange bias on polycrystalline BiFeO3/Co2Fe(Al0.5Si0.5) heterostructures. <i>Rare Metals</i> , 2017 , 36, 32-35	3.5	3
63	Thickness dependence of magnetic anisotropy and intrinsic anomalous Hall effect in epitaxial Co2MnAl film. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 1202-1206	2.3	10
62	Enhanced spin-orbit torques in MnAl/Ta films with improving chemical ordering. <i>Applied Physics Letters</i> , 2017 , 110, 142401	3.4	16
61	Ultra-large non-volatile modulation of magnetic moments in PbZrTiO/MgO/LaSrMnO heterostructure at room temperature via interfacial polarization mediation. <i>Scientific Reports</i> , 2017 , 7, 2627	4.9	6
60	Polarization modulation resistive switching in a lead-free ferroelectric Pt/Bi0.5Na0.5TiO3/La0.67Sr0.33MnO3 sandwiched heterostructure. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 12816-12822	2.1	5
59	Ultra-high photocurrent response in a chromia oxide thin film under visible light illumination. <i>Journal of Alloys and Compounds</i> , 2017 , 723, 311-316	5.7	3
58	Spin Hall magnetoresistance in an antiferromagnetic magnetoelectric Cr2O3/heavy-metal W heterostructure. <i>Applied Physics Letters</i> , 2017 , 110, 262401	3.4	38
57	Strain-controlled giant magnetoresistance of a spin valve grown on a flexible substrate. <i>RSC Advances</i> , 2016 , 6, 88090-88095	3.7	6

56	Anomalous Hall effect in Mn _{1.5} Ga/Ta and Mn _{1.5} Ga/Pt bilayers: Modification from spin-orbit coupling of heavy metals. <i>Physical Review B</i> , 2016 , 93,	3-3	25
55	Heteroepitaxial Pb _{0.9} Sr _{0.1} TiO ₃ /Bi _{0.9} La _{0.1} FeO ₃ /Pb _{0.9} Sr _{0.1} TiO ₃ multiferroic structure: an effective way to improve the electrical, ferroelectric and magnetic performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 8080-8086	2-1	3
54	A novel multiferroic/full-Heusler BiFeO ₃ /Co ₂ FeAl _{0.5} Si _{0.5} heterostructure: Structural, ferroelectric and magnetic properties. <i>Journal of Alloys and Compounds</i> , 2016 , 660, 125-130	5-7	9
53	Lattice distortion and orbital hybridization in NdFeO ₃ -PbTiO ₃ ferroelectric thin films. <i>Dalton Transactions</i> , 2016 , 45, 1554-9	4-3	15
52	Anomalous Hall effect and spin-orbit torques in MnGa/IrMn films: Modification from strong spin Hall effect of the antiferromagnet. <i>Physical Review B</i> , 2016 , 94,	3-3	30
51	Modulated switching current density and spin-orbit torques in MnGa/Ta films with inserting ferromagnetic layers. <i>Scientific Reports</i> , 2016 , 6, 38375	4-9	24
50	Hybrid magnetoresistance in Pt-based multilayers: Effect originated from strong interfacial spin-orbit coupling. <i>Scientific Reports</i> , 2016 , 6, 20522	4-9	5
49	Perpendicular magnetic anisotropy of Pt/Co ₂ FeAl _{0.5} Si _{0.5} /MgAl ₂ O ₄ trilayers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 2780-2784	1-6	11
48	Room-temperature spin transport in InAs nanowire lateral spin valve. <i>RSC Advances</i> , 2016 , 6, 75736-75747	4-7	3
47	Electric-Field-Controlled Room Temperature AMR Switching in a NiFe/BiFeO ₃ /SrRuO ₃ /SrTiO ₃ (111) Heterostructure. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-3	2	1
46	Strain-mediated electric-field control of exchange bias in a Co ₉₀ Fe ₁₀ /BiFeO ₃ /SrRuO ₃ /PMN-PT heterostructure. <i>Scientific Reports</i> , 2015 , 5, 8905	4-9	46
45	Low-energy Resistive Random Access Memory Devices with No Need for a Compliance Current. <i>Scientific Reports</i> , 2015 , 5, 10409	4-9	20
44	Perpendicular Magnetic Anisotropy in Co-Based Full Heusler Alloy Thin Films. <i>Spin</i> , 2015 , 05, 1540012	1-3	12
43	Enhanced ferroelectric and UV photocatalytic properties in a Bi ₄ Ti ₃ O ₁₂ @ZnO core/shelled nanostructure. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 1423-1428	2-1	5
42	Enhanced electrical and ferroelectric properties in a multiferroic (BiFeO ₃ /Bi _{0.5} Na _{0.5} TiO ₃) ₃ /LaNiO ₃ superlattices structure. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 114, 367-372	2-6	5
41	Transparent amorphous memory cell: A bipolar resistive switching in ZnO/Pr _{0.7} Ca _{0.3} MnO ₃ /ITO for invisible electronics application. <i>Journal of Non-Crystalline Solids</i> , 2014 , 406, 102-106	3-9	19
40	Improved electrical and ferroelectric properties of multiferroic Na _{0.5} Bi _{0.5} TiO ₃ /Bi _{1.07} Nd _{0.03} FeO ₃ /Na _{0.5} Bi _{0.5} TiO ₃ sandwiched structure by a sol-gel process. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 2411-2415	2-1	5
39	Perpendicular magnetic anisotropy and thermal stability in Co ₂ FeAl _{0.5} Si _{0.5} /Pt multilayers. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 117, 773-779	2-6	12

38	Effects of annealing and MgO thickness on perpendicular magnetic anisotropy in Pt/Co ₂ FeAl _{0.5} Si _{0.5} /MgO/Pt multilayers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 606-610	1.6	9
37	Interfacial and Magnetic Properties of Pt/Co ₂ FeAl _{0.5} Si _{0.5} /MgO Multilayers With Perpendicular Magnetic Anisotropy. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	2
36	Room temperature ferromagnetism of boron-doped ZnO nanoparticles prepared by solvothermal method. <i>Rare Metals</i> , 2013 , 32, 264-268	5.5	4
35	Room temperature ferromagnetism of Si-doped ZnO thin films prepared by sol-gel method. <i>Rare Metals</i> , 2013 , 32, 165-168	5.5	1
34	Double-perovskite multiferroic Bi ₂ FeCrO ₆ polycrystalline thin film: The structural, multiferroic, and ferroelectric domain properties. <i>Journal of Alloys and Compounds</i> , 2013 , 554, 299-303	5.7	24
33	Anomalous Hall effect in magnetic disordered alloys: Effects of spin orbital coupling. <i>Journal of Applied Physics</i> , 2013 , 114, 243912	2.5	6
32	Resistive switching in Nb-doped SrZrO ₃ memory films: An effective approach with a Cu modulation layer. <i>Journal of Alloys and Compounds</i> , 2013 , 548, 1-6	5.7	12
31	Perpendicular magnetic anisotropy in Co ₂ FeAl _{0.5} Si _{0.5} /MgO bottom electrodes for magnetic tunnel junctions. <i>Thin Solid Films</i> , 2013 , 545, 503-508	2.2	19
30	Butterfly-shaped multiferroic BiFeO ₃ @BaTiO ₃ core-shell nanotubes: the interesting structural, multiferroic, and optical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 1439-1445	2.1	5
29	Enhanced fatigue and ferroelectric properties in multiferroic (Ba _{0.7} Sr _{0.3})TiO ₃ /(Bi _{1.05} La _{0.05})FeO ₃ epitaxial heterostructures. <i>Applied Physics Letters</i> , 2013 , 102, 232902	3.4	17
28	The Anomalous Hall Effect of Co ₂ FeAl _{0.5} Si _{0.5} /Pt Multilayers with Perpendicular Magnetic Anisotropy. <i>Applied Physics Express</i> , 2013 , 6, 113003	2.4	11
27	INTRINSIC ROOM TEMPERATURE FERROMAGNETISM OF SILICON-DOPED ZnO THIN FILMS. <i>Modern Physics Letters B</i> , 2013 , 27, 1350092	1.6	1
26	Effects of dopants on magnetic properties of Cu-doped ZnO thin films. <i>Journal of Materials Science</i> , 2012 , 47, 530-533	4.3	10
25	Ultra-thin BiFeO ₃ nanowires prepared by a sol-gel combustion method: an investigation of its multiferroic and optical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 180-184	2.1	20
24	Current-induced domain wall motion in magnetic nanowires with different dimensions. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012 , 55, 2030-2032	3.6	1
23	Dependence of ferromagnetic properties on growth oxygen partial pressure in boron-doped ZnO thin films. <i>Journal of Materials Science</i> , 2012 , 47, 6513-6516	4.3	10
22	Effect of annealing atmosphere on magnetic properties of pure ZnO and Na: ZnO films. <i>Rare Metals</i> , 2012 , 31, 27-30	5.5	10
21	Effect of defect complex on magnetic properties of (Fe, Mn)-doped ZnO thin films. <i>Rare Metals</i> , 2012 , 31, 154-157	5.5	14

20	Enhanced Electric and Magnetic Properties of the Epitaxial $(\text{Ba}_{0.5}\text{Sr}_{0.5})\text{TiO}_3/\text{BiFeO}_3$ Multiferroic Heterostructure. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3418-3421		
19	Room Temperature Ferromagnetism in Lithium-Doped ZnO. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3422-3425	2	4
18	Dependence of BiFeO ₃ thickness on exchange bias in BiFeO ₃ /Co ₂ FeAl multiferroic structures. <i>Journal of Physics: Conference Series</i> , 2011 , 263, 012008	0.3	3
17	Resistive switching and changes in microstructure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 300-316	1.6	31
16	Bi-relaxation behaviors in epitaxial multiferroic double-perovskite BiFe _{0.5} Mn _{0.5} O ₃ /CaRuO ₃ heterostructures. <i>Applied Physics Letters</i> , 2011 , 99, 062905	3.4	21
15	Defects control for improved electrical properties in (Ba _{0.8} Sr _{0.2})(Zr _{0.2} Ti _{0.8})O ₃ films by Co acceptor doping. <i>Applied Physics Letters</i> , 2011 , 99, 232910	3.4	10
14	ENHANCED MULTIFERROIC PROPERTIES OF BiFeO ₃ CERAMICS BY Mo DOPING. <i>Modern Physics Letters B</i> , 2011 , 25, 1521-1528	1.6	3
13	Perpendicularizing magnetic anisotropy of full-Heusler Co ₂ FeAl films by cosputtering with terbium. <i>Applied Physics Letters</i> , 2010 , 96, 142505	3.4	14
12	Intrinsic room temperature ferromagnetism in boron-doped ZnO. <i>Applied Physics Letters</i> , 2010 , 97, 232502	3.4	62
11	Ionized-oxygen vacancies related dielectric relaxation in heteroepitaxial K _{0.5} Na _{0.5} NbO ₃ /La _{0.67} Sr _{0.33} MnO ₃ structure at elevated temperature. <i>Applied Physics Letters</i> , 2009 , 95, 132905	3.4	36
10	Improvement of ferroelectric fatigue endurance in multiferroic (Ba _{0.5} Sr _{0.5})TiO ₃ (Bi _{1.05} La _{0.05})FeO ₃ (Ba _{0.5} Sr _{0.5})TiO ₃ sandwich structures. <i>Applied Physics Letters</i> , 2008 , 92, 062902	3.4	22
9	Microstructure and dielectric relaxor properties for Ba _{0.5} Sr _{0.5} TiO ₃ /La _{0.67} Sr _{0.33} MnO ₃ heterostructure. <i>Journal of Applied Physics</i> , 2007 , 101, 084101	2.5	24
8	Metallic oxide p-n junctions with ferroelectric as the barrier. <i>Applied Physics Letters</i> , 2007 , 90, 102113	3.4	11
7	Enhanced dielectric properties of Ba _{1-x} Sr _x TiO ₃ thin film grown on La _{1-x} Sr _x MnO ₃ bottom layer. <i>Journal of Applied Physics</i> , 2004 , 96, 6578-6584	2.5	19
6	Positive temperature coefficient of resistivity in Pt(Ba _{0.7} Sr _{0.3})TiO ₃ /Ba ₂ Cu ₃ O _{7-x} capacitors. <i>Applied Physics Letters</i> , 2004 , 85, 5019-5021	3.4	10
5	Abnormal temperature dependence of dielectric constant in (Ba _{0.7} Sr _{0.3})TiO ₃ thin films. <i>Applied Physics Letters</i> , 2004 , 85, 4106-4108	3.4	3
4	The Structural, Magnetic, and Transport Properties of the Pulsed Laser-Deposited Co ₂ FeAl Thin Films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2100643	1.6	0
3	CO ₂ Capture and Conversion Using a Cobalt(III) Schiff Base Complex As a Catalyst at Ambient Conditions 117-124		

2 Ferroelectric thin films: performance modulation and application. *Materials Advances*, 3:3 1

1 Robust interface-induced unusual anomalous Hall effect in Mn₃Sn/Pt bilayers. *Rare Metals*, 5:5