

Jun Miao

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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	Intrinsic room temperature ferromagnetism in boron-doped ZnO. <i>Applied Physics Letters</i> , 2010 , 97, 232504	5.4	62
108	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
107	Spin Hall magnetoresistance in an antiferromagnetic magnetoelectric Cr ₂ O ₃ /heavy-metal W heterostructure. <i>Applied Physics Letters</i> , 2017 , 110, 262401	3.4	38
106	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
105	Negative spin Hall magnetoresistance in antiferromagnetic Cr ₂ O ₃ /Ta bilayer at low temperature region. <i>Applied Physics Letters</i> , 2018 , 112, 232404	3.4	32
104	Resistive switching and changes in microstructure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 300-316	1.6	31
103	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
102	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
101	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
100	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
99	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
98	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
97	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
96	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 ¹	2.1	20
95	Low-energy Resistive Random Access Memory Devices with No Need for a Compliance Current. <i>Scientific Reports</i> , 2015 , 5, 10409	4.9	20
94	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
93	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

92	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
91	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
90	Enhanced spin-orbit torques in MnAl/Ta films with improving chemical ordering. <i>Applied Physics Letters</i> , 2017 , 110, 142401	3.4	16
89	Lattice distortion and orbital hybridization in NdFeO ₃ -PbTiO ₃ ferroelectric thin films. <i>Dalton Transactions</i> , 2016 , 45, 1554-9	4.3	15
88	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
87	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
86	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
85	Robust emergence of a topological Hall effect in MnGa/heavy metal bilayers. <i>Physical Review B</i> , 2018 , 97,	3.3	12
84	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
83	Perpendicular Magnetic Anisotropy in Co-Based Full Heusler Alloy Thin Films. <i>Spin</i> , 2015 , 05, 1540012	1.3	12
82	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
81	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
80	Metallic oxide p-I-n junctions with ferroelectric as the barrier. <i>Applied Physics Letters</i> , 2007 , 90, 102113	3.4	11
79	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
78	Thickness dependence of magnetic anisotropy and intrinsic anomalous Hall effect in epitaxial Co ₂ MnAl film. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 1202-1206	2.3	10
77	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
76	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
75	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

74	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
73	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
72	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
71	Spin-orbit torque-induced multiple magnetization switching behaviors in synthetic antiferromagnets. <i>Applied Physics Letters</i> , 2020 , 117, 112401	3.4	10
70	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
69	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
68	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
67	Nonvolatile Ferroelectric Field Control of the Anomalous Hall Effect in BiFeO ₃ /SrRuO ₃ Bilayer. <i>Physical Review Applied</i> , 2020 , 13,	4.3	8
66	High resistance ratio of bipolar resistive switching in a multiferroic/high-K Bi(Fe _{0.95} Cr _{0.05})O ₃ /ZrO ₂ /Pt heterostructure. <i>Applied Surface Science</i> , 2018 , 434, 687-692	6.7	8
65	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
64	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
63	Strain-controlled giant magnetoresistance of a spin valve grown on a flexible substrate. <i>RSC Advances</i> , 2016 , 6, 88090-88095	3.7	6
62	Large modulation of perpendicular magnetic anisotropy in a BiFeO ₃ /Al ₂ O ₃ /Pt/Co/Pt multiferroic heterostructure via spontaneous polarizations. <i>Applied Physics Letters</i> , 2018 , 113, 062401	3.4	6
61	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
60	Anomalous Hall effect in magnetic disordered alloys: Effects of spin orbital coupling. <i>Journal of Applied Physics</i> , 2013 , 114, 243912	2.5	6
59	Disorder dependent spin-orbit torques in L10 FePt single layer. <i>Applied Physics Letters</i> , 2020 , 117, 242403	3.4	6
58	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
57	Polarization modulation resistive switching in a lead-free ferroelectric Pt/Bi _{0.5} Na _{0.5} TiO ₃ /La _{0.67} Sr _{0.33} MnO ₃ sandwiched heterostructure. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 12816-12822	2.1	5

56	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
55	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
54	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
53	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
52	Hybrid magnetoresistance in Pt-based multilayers: Effect originated from strong interfacial spin-orbit coupling. <i>Scientific Reports</i> , 2016 , 6, 20522	4.9	5
51	Interface-driven unusual anomalous Hall effect in Mn _x Ga/Pt bilayers. <i>Physical Review B</i> , 2019 , 100,	3.3	5
50	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
49	Room temperature ferromagnetism of boron-doped ZnO nanoparticles prepared by solvothermal method. <i>Rare Metals</i> , 2013 , 32, 264-268	5.5	4
48	Room Temperature Ferromagnetism in Lithium-Doped ZnO. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3422-3425	2	4
47	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
46	Magnetic Coupling in Y ₃ Fe ₅ O ₁₂ /Gd ₃ Fe ₅ O ₁₂ Heterostructures. <i>Physical Review Applied</i> , 2021 , 16,	4.3	4
45	Exchange bias on polycrystalline BiFeO ₃ /Co ₂ Fe(Al _{0.5} Si _{0.5}) heterostructures. <i>Rare Metals</i> , 2017 , 36, 32-36	5	3
44	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
43	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
42	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
41	ENHANCED MULTIFERROIC PROPERTIES OF BiFeO ₃ CERAMICS BY Mo DOPING. <i>Modern Physics Letters B</i> , 2011 , 25, 1521-1528	1.6	3
40	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
39	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

38	Room-temperature spin transport in InAs nanowire lateral spin valve. <i>RSC Advances</i> , 2016 , 6, 75736-75740	3	3
37	Facile synthesis of ultrasmall MnFe ₂ O ₄ nanoparticles with high saturation magnetization for magnetic resonance imaging. <i>Ceramics International</i> , 2021 ,	5.1	3
36	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
35	Strain-Controlled Giant Magnetoresistance in Spin Valves Grown on Shape Memory Alloys. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 910-918	4	2
34	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
33	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
32	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
31	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
30	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
29	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
28	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
27	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
26	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
25	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
24	Spin-orbit torque in antiferromagnetically coupled Co and Tb multilayers. <i>Physica Scripta</i> , 2020 , 95, 075802	2	1
23	Magnon-Dragged Magnetoresistance and Spin Seebeck Effect in YIG/IrMn Thin Films. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	1
22	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
21	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

20	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
19	INTRINSIC ROOM TEMPERATURE FERROMAGNETISM OF SILICON-DOPED ZnO THIN FILMS. <i>Modern Physics Letters B</i> , 2013 , 27, 1350092	1.6	1
18	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
17	The influence of perpendicular exchange bias on current-induced magnetization switching. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 475001	3	1
16	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
15	Robust spin-orbit torques in ferromagnetic multilayers with weak bulk spin Hall effect. <i>Applied Physics Letters</i> , 2020 , 117, 122401	3.4	1
14	Geometric size dependence of spin-mixing conductance at Pt/YIG interface. <i>Applied Physics Letters</i> , 2021 , 118, 222402	3.4	1
13	Interface-driven electrical magnetochiral anisotropy in Pt/PtMnGa bilayers. <i>Applied Physics Letters</i> , 2021 , 118, 252403	3.4	1
12	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
11	Ferroelectric thin films: performance modulation and application. <i>Materials Advances</i> ,	3.3	1
10	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
9	Self-rectifying and forming-free resistive switching behaviors in Pt/La ₂ Ti ₂ O ₇ /Pt structure. <i>Ceramics International</i> , 2021 , 48, 4693-4693	5.1	0
8	Enhanced ferroelectric and photoelectric properties in lead-free Bi _{1.07} FeO ₃ -modified K _{0.5} Na _{0.5} NbO ₃ thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 2051-2060	2.1	0
7	High nonvolatile modulation of resistance on a ferroelectric PbZr _{0.2} Ti _{0.8} O ₃ /Nd _{0.3} Sm _{0.25} Sr _{0.45} MnO ₃ liquid-gated electric-double-layer transistors. <i>Solid State Communications</i> , 2020 , 309, 113848	1.6	
6	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	3.2	
5	Room temperature spin Hall magnetoresistance at a hetero-interface between multiferroic Bi _{1.05} La _{0.05} FeO ₃ and heavy-metal Pt. <i>Applied Physics Letters</i> , 2022 , 120, 062406	3.4	
4	Impact of patterning processes on spin Hall magnetoresistance in Pt/YIG structures. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, 110901	1.4	
3	CO ₂ Capture and Conversion Using a Cobalt(III) Schiff Base Complex As a Catalyst at Ambient Conditions 117-124		

- 2 Tailoring large magnetoresistance in Dirac semimetal SrIrO₃ films. *Applied Physics Letters*, **2021**, 119, 112402 3-4
- 1 Robust interface-induced unusual anomalous Hall effect in Mn₃Sn/Pt bilayers. *Rare Metals*, 5-5