

Xiao-Guang Xu

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104
papers

1,059
citations

18
h-index

27
g-index

110
ext. papers

1,248
ext. citations

4.2
avg, IF

4.22
L-index

#	Paper	IF	Citations
104	Intrinsic room temperature ferromagnetism in boron-doped ZnO. <i>Applied Physics Letters</i> , 2010 , 97, 232504	5.4	62
103	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
102	Fe@Ag core-shell nanoparticles with both sensitive plasmonic properties and tunable magnetism. <i>Materials Letters</i> , 2010 , 64, 1732-1734	3.3	45
101	Observation of charge to spin conversion in Weyl semimetal WTe ₂ at room temperature. <i>Physical Review Research</i> , 2020 , 2,	3.9	39
100	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
99	Unconventional Charge-Spin Conversion in Weyl-Semimetal WTe. <i>Advanced Materials</i> , 2020 , 32, e20008184	3.4	38
98	Effect of oxide/oxide interface on polarity dependent resistive switching behavior in ZnO/ZrO ₂ heterostructures. <i>Applied Physics Letters</i> , 2014 , 104, 192903	3.4	36
97	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
96	Co nanoparticles induced resistive switching and magnetism for the electrochemically deposited polypyrrole composite films. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17823-30	9.5	33
95	Perpendicular Magnetic Anisotropy of Full-Heusler Films in Pt/Co ₂ FeAl/MgO Trilayers. <i>Applied Physics Express</i> , 2011 , 4, 043006	2.4	33
94	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
93	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
92	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
91	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
90	Monodisperse magnetic metallic nanoparticles: synthesis, performance enhancement, and advanced applications. <i>Rare Metals</i> , 2013 , 32, 323-331	5.5	22
89	FeO@ Astragalus Polysaccharide Core-Shell Nanoparticles for Iron Deficiency Anemia Therapy and Magnetic Resonance Imaging in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10452-10461	9.5	21
88	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

87	Low-energy Resistive Random Access Memory Devices with No Need for a Compliance Current. <i>Scientific Reports</i> , 2015 , 5, 10409	4.9	20
86	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
85	Enhanced spin-orbit torques in MnAl/Ta films with improving chemical ordering. <i>Applied Physics Letters</i> , 2017 , 110, 142401	3.4	16
84	Electronic structures of Heusler alloy Co ₂ FeAl _{1-x} Si _x surface. <i>Rare Metals</i> , 2012 , 31, 107-111	5.5	16
83	Enhancement of Magnetic Properties for FePt Nanoparticles by Rapid Annealing in a Vacuum. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19867-19870	3.8	15
82	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
81	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
80	Robust emergence of a topological Hall effect in MnGa/heavy metal bilayers. <i>Physical Review B</i> , 2018 , 97,	3.3	12
79	Perpendicular Magnetic Anisotropy in Co-Based Full Heusler Alloy Thin Films. <i>Spin</i> , 2015 , 05, 1540012	1.3	12
78	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
77	Synthetic antiferromagnet with Heusler alloy Co ₂ FeAl ferromagnetic layers. <i>Journal of Applied Physics</i> , 2009 , 106, 123902	2.5	12
76	A first-principles study of the magnetic properties in boron-doped ZnO. <i>Chinese Physics B</i> , 2012 , 21, 047504	5.0	12
75	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
74	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
73	Simultaneous laser excitation of backward volume and perpendicular standing spin waves in full-Heusler CoFeAlSi films. <i>Scientific Reports</i> , 2017 , 7, 42513	4.9	10
72	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
71	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
70	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

69	Electronic structures of new tunnel barrier spinel MgAl ₂ O ₄ : first-principles calculations. <i>Rare Metals</i> , 2012 , 31, 112-116	5.5	10
68	Spin-orbit torque-induced multiple magnetization switching behaviors in synthetic antiferromagnets. <i>Applied Physics Letters</i> , 2020 , 117, 112401	3.4	10
67	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
66	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
65	Magnetically recoverable Ag/Bi ₂ Fe ₄ O ₉ nanoparticles as a visible-light-driven photocatalyst. <i>Chemical Physics Letters</i> , 2019 , 715, 129-133	2.5	9
64	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
63	Enhanced and Facet-specific Electrocatalytic Properties of Ag/BiFeO Composite Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12698-12707	9.5	8
62	Strong perpendicular magnetic anisotropy in Co ₂ FeAl _{0.5} Si _{0.5} film sandwiched by MgO layers. <i>Chinese Physics B</i> , 2013 , 22, 057305	1.2	7
61	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
60	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
59	Spin orbit interaction fingerprints of a ballistic graphene Josephson junction. <i>Carbon</i> , 2017 , 122, 150-161	10.4	6
58	Strain-controlled giant magnetoresistance of a spin valve grown on a flexible substrate. <i>RSC Advances</i> , 2016 , 6, 88090-88095	3.7	6
57	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
56	Electrically controlled spin-switch and evolution of Hanle spin precession in graphene. <i>2D Materials</i> , 2019 , 6, 035042	5.9	6
55	The effects of Zn vacancies on ferromagnetism in Cu-doped ZnO films controlled by oxygen pressure and Li doping. <i>Chinese Physics B</i> , 2013 , 22, 067503	1.2	6
54	Disorder dependent spin-orbit torques in L10 FePt single layer. <i>Applied Physics Letters</i> , 2020 , 117, 242403	3.4	6
53	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
52	In-plane electric field controlled ferromagnetism and anisotropic magnetoresistance in an LSMO/PMN-PT heterostructure. <i>Nanotechnology</i> , 2018 , 29, 224003	3.4	5

51	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
50	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
49	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
48	The effects of tungsten concentration on crystalline structure and perpendicular magnetic anisotropy of Co-W films. <i>AIP Advances</i> , 2014 , 4, 127156	1.5	5
47	Magneto-optical Kerr effect in L10 FePdPt ternary alloys: Experiments and first-principles calculations. <i>Journal of Applied Physics</i> , 2014 , 115, 183903	2.5	5
46	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
45	Hybrid magnetoresistance in Pt-based multilayers: Effect originated from strong interfacial spin-orbit coupling. <i>Scientific Reports</i> , 2016 , 6, 20522	4.9	5
44	Interface-driven unusual anomalous Hall effect in MnxGa/Pt bilayers. <i>Physical Review B</i> , 2019 , 100,	3.3	5
43	Perpendicular magnetic anisotropy in SrTiO ₃ /Co/Pt films induced by oxygen diffusion from CaTiO ₃ spacer layer. <i>Applied Physics Letters</i> , 2020 , 116, 232402	3.4	4
42	Magnetic properties of corrosion-resistant CoW films. <i>RSC Advances</i> , 2014 , 4, 26508-26515	3.7	4
41	Room temperature ferromagnetism of boron-doped ZnO nanoparticles prepared by solvothermal method. <i>Rare Metals</i> , 2013 , 32, 264-268	5.5	4
40	Room Temperature Ferromagnetism in Lithium-Doped ZnO. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3422-3425	2	4
39	Enhanced magnetic properties of cobalt nanoparticles on FeMn films. <i>Materials Letters</i> , 2010 , 64, 2424-2426	3.3	4
38	Exchange bias on polycrystalline BiFeO ₃ /Co ₂ Fe(Al _{0.5} Si _{0.5}) heterostructures. <i>Rare Metals</i> , 2017 , 36, 32-35	3.5	3
37	A proposed experimental diagnosing of specular Andreev reflection using the spin orbit interaction. <i>Scientific Reports</i> , 2016 , 6, 29279	4.9	3
36	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
35	ENHANCED MULTIFERROIC PROPERTIES OF BiFeO ₃ CERAMICS BY Mo DOPING. <i>Modern Physics Letters B</i> , 2011 , 25, 1521-1528	1.6	3
34	A clear oscillation of the interlayer exchange coupling in Co ₂ FeAl/Cr/Co ₂ FeAl structure with MgO capping layer. <i>Journal of Applied Physics</i> , 2012 , 112, 073904	2.5	3

33	Room-temperature spin transport in InAs nanowire lateral spin valve. <i>RSC Advances</i> , 2016 , 6, 75736-75740	4.7	3
32	Fe ₃ O ₄ @Angelica sinensis polysaccharide nanoparticles as an ultralow-toxicity contrast agent for magnetic resonance imaging. <i>Rare Metals</i> , 2021 , 40, 2486-2493	5.5	3
31	Effect of Ti doping on spin injection and relaxation in few-layer graphene. <i>Carbon</i> , 2018 , 127, 568-575	10.4	3
30	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
29	Aging effect of spin accumulation in non-local spin valves. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 432, 291-295	2.8	2
28	Strain-Controlled Giant Magnetoresistance in Spin Valves Grown on Shape Memory Alloys. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 910-918	4	2
27	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
26	Enhancement of Interfacial Polarization in BaTiO ₃ Thin Films via Oxygen Inhomogeneity. <i>Advanced Electronic Materials</i> , 2100876	6.4	2
25	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
24	Preparation Fe ₃ O ₄ @chitosan-graphene quantum dots nanocomposites for fluorescence and magnetic resonance imaging. <i>Chemical Physics Letters</i> , 2021 , 783, 139060	2.5	2
23	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
22	Architecting Braided Porous Carbon Fibers Based on High-Density Catalytic Crystal Planes to Achieve Highly Reversible Sodium-Ion Storage.. <i>Advanced Science</i> , 2022 , e2104780	13.6	2
21	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
20	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
19	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
18	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
17	INTRINSIC ROOM TEMPERATURE FERROMAGNETISM OF SILICON-DOPED ZnO THIN FILMS. <i>Modern Physics Letters B</i> , 2013 , 27, 1350092	1.6	1
16	The influence of perpendicular exchange bias on current-induced magnetization switching. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 475001	3	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	Growth Modulation of Super-Tetragonal PbTiO ₃ Thin Films with Self-Assembled Nanocolumn Structures. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100547	6.4	1
11	Room-Temperature Non-Local Spin Transport in Few-Layer Black Phosphorus Passivated with MgO. <i>Advanced Electronic Materials</i> , 2101048	6.4	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	Highly stable aqueous phase black phosphorus quantum dots with enhanced fluorescence property. <i>Journal of Materials Science and Technology</i> , 2022 , 116, 50-57	9.1	0
8	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
7	Frequency regulation in alternating current transportation properties for electron correlated rare-earth nickelates heterostructures. <i>Journal of Applied Physics</i> , 2022 , 131, 075109	2.5	0
6	First-principles calculations on magnetic property of Cu-doped ZnO tuned by Na and Al dopants. <i>Rare Metals</i> , 2015 , 34, 40-44	5.5	
5	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		
4	BALLISTIC ELECTRON TRANSPORT IN A HYBRID FERROMAGNET/TWO-DIMENSIONAL ELECTRON GAS NANOSTRUCTURE. <i>Modern Physics Letters B</i> , 2012 , 26, 1250191	1.6	
3	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	
2	Probing the Interlayer Exchange Coupling in Polycrystalline Co ₂ FeAl/Cr/Co ₂ FeAl Multilayers on Different Substrates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2100867	1.6	
1	Robust interface-induced unusual anomalous Hall effect in Mn ₃ Sn/Pt bilayers. <i>Rare Metals</i> ,	5.5	