

Xiao-Guang Xu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1273506/xiao-guang-xu-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	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
103	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	
102	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
101	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
100	Self-rectifying and forming-free resistive switching behaviors in Pt/La2Ti2O7/Pt structure. <i>Ceramics International</i> , 2021 , 48, 4693-4693	5.1	0
99	Geometric size dependence of spin-mixing conductance at Pt/YIG interface. <i>Applied Physics Letters</i> , 2021 , 118, 222402	3.4	1
98	Interface-driven electrical magnetochiral anisotropy in Pt/PtMnGa bilayers. <i>Applied Physics Letters</i> , 2021 , 118, 252403	3.4	1
97	Fe3O4@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
96	Growth Modulation of Super-Tetragonal PbTiO3 Thin Films with Self-Assembled Nanocolumn Structures. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100547	6.4	1
95	Facile synthesis of ultras-small MnFe2O4 nanoparticles with high saturation magnetization for magnetic resonance imaging. <i>Ceramics International</i> , 2021 ,	5.1	3
94	Preparation Fe3O4@chitosan-graphene quantum dots nanocomposites for fluorescence and magnetic resonance imaging. <i>Chemical Physics Letters</i> , 2021 , 783, 139060	2.5	2
93	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
92	Perpendicular magnetic anisotropy in SrTiO3/Co/Pt films induced by oxygen diffusion from CaTiO3 spacer layer. <i>Applied Physics Letters</i> , 2020 , 116, 232402	3.4	4
91	Observation of charge to spin conversion in Weyl semimetal WTe2 at room temperature. <i>Physical Review Research</i> , 2020 , 2,	3.9	39
90	Disorder dependent spin-orbit torques in L10 FePt single layer. <i>Applied Physics Letters</i> , 2020 , 117, 242403	3.4	6
89	The influence of perpendicular exchange bias on current-induced magnetization switching. <i>Journal of Applied Physics</i> , 2020 , 53, 475001	3	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	Unconventional Charge-Spin Conversion in Weyl-Semimetal WTe. <i>Advanced Materials</i> , 2020 , 32, e20008184	3.4	38
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	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
83	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
82	Strain-Controlled Giant Magnetoresistance in Spin Valves Grown on Shape Memory Alloys. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 910-918	4	2
81	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
80	Electrically controlled spin-switch and evolution of Hanle spin precession in graphene. <i>2D Materials</i> , 2019 , 6, 035042	5.9	6
79	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
78	Interface-driven unusual anomalous Hall effect in Mn _x Ga/Pt bilayers. <i>Physical Review B</i> , 2019 , 100,	3.3	5
77	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
76	Robust emergence of a topological Hall effect in MnGa/heavy metal bilayers. <i>Physical Review B</i> , 2018 , 97,	3.3	12
75	Enhanced and Facet-specific Electrocatalytic Properties of Ag/BiFeO Composite Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12698-12707	9.5	8
74	In-plane electric field controlled ferromagnetism and anisotropic magnetoresistance in an LSMO/PMN-PT heterostructure. <i>Nanotechnology</i> , 2018 , 29, 224003	3.4	5
73	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
72	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
71	Effect of Ti doping on spin injection and relaxation in few-layer graphene. <i>Carbon</i> , 2018 , 127, 568-575	10.4	3
70	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

69	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
68	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
67	Enhanced spin-orbit torques in MnAl/Ta films with improving chemical ordering. <i>Applied Physics Letters</i> , 2017 , 110, 142401	3.4	16
66	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
65	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
64	Spin orbit interaction fingerprints of a ballistic graphene Josephson junction. <i>Carbon</i> , 2017 , 122, 150-161	10.4	6
63	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
62	Strain-controlled giant magnetoresistance of a spin valve grown on a flexible substrate. <i>RSC Advances</i> , 2016 , 6, 88090-88095	3.7	6
61	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
60	A proposed experimental diagnosing of specular Andreev reflection using the spin orbit interaction. <i>Scientific Reports</i> , 2016 , 6, 29279	4.9	3
59	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
58	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
57	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
56	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
55	Hybrid magnetoresistance in Pt-based multilayers: Effect originated from strong interfacial spin-orbit coupling. <i>Scientific Reports</i> , 2016 , 6, 20522	4.9	5
54	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
53	Room-temperature spin transport in InAs nanowire lateral spin valve. <i>RSC Advances</i> , 2016 , 6, 75736-75740	4.7	3
52	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

51	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	
50	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
49	Low-energy Resistive Random Access Memory Devices with No Need for a Compliance Current. <i>Scientific Reports</i> , 2015 , 5, 10409	4.9	20
48	Perpendicular Magnetic Anisotropy in Co-Based Full Heusler Alloy Thin Films. <i>Spin</i> , 2015 , 05, 1540012	1.3	12
47	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
46	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
45	Magnetic properties of corrosion-resistant CoW films. <i>RSC Advances</i> , 2014 , 4, 26508-26515	3.7	4
44	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
43	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
42	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
41	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
40	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
39	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
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	Monodisperse magnetic metallic nanoparticles: synthesis, performance enhancement, and advanced applications. <i>Rare Metals</i> , 2013 , 32, 323-331	5.5	22

- 33 Butterfly-shaped multiferroic BiFeO₃@BaTiO₃ core-shell nanotubes: the interesting structural, multiferroic, and optical properties. *Journal of Materials Science: Materials in Electronics*, **2013**, 24, 1439-1445 5
- 32 Enhanced fatigue and ferroelectric properties in multiferroic (Ba_{0.7}Sr_{0.3})TiO₃/(Bi_{1.05}La_{0.05})FeO₃ epitaxial heterostructures. *Applied Physics Letters*, **2013**, 102, 232902 3-4 17
- 31 The Anomalous Hall Effect of Co₂FeAl_{0.5}Si_{0.5}/Pt Multilayers with Perpendicular Magnetic Anisotropy. *Applied Physics Express*, **2013**, 6, 113003 2-4 11
- 30 Strong perpendicular magnetic anisotropy in Co₂FeAl_{0.5}Si_{0.5} film sandwiched by MgO layers. *Chinese Physics B*, **2013**, 22, 057305 1-2 7
- 29 The effects of Zn vacancies on ferromagnetism in Cu-doped ZnO films controlled by oxygen pressure and Li doping. *Chinese Physics B*, **2013**, 22, 067503 1-2 6
- 28 INTRINSIC ROOM TEMPERATURE FERROMAGNETISM OF SILICON-DOPED ZnO THIN FILMS. *Modern Physics Letters B*, **2013**, 27, 1350092 1-6 1
- 27 Effects of dopants on magnetic properties of Cu-doped ZnO thin films. *Journal of Materials Science*, **2012**, 47, 530-533 4-3 10
- 26 Ultra-thin BiFeO₃ nanowires prepared by a sol-gel combustion method: an investigation of its multiferroic and optical properties. *Journal of Materials Science: Materials in Electronics*, **2012**, 23, 180-184^{2,1} 20
- 25 Current-induced domain wall motion in magnetic nanowires with different dimensions. *Science China: Physics, Mechanics and Astronomy*, **2012**, 55, 2030-2032 3-6 1
- 24 Dependence of ferromagnetic properties on growth oxygen partial pressure in boron-doped ZnO thin films. *Journal of Materials Science*, **2012**, 47, 6513-6516 4-3 10
- 23 Effect of annealing atmosphere on magnetic properties of pure ZnO and Na: ZnO films. *Rare Metals*, **2012**, 31, 27-30 5-5 10
- 22 Electronic structures of Heusler alloy Co₂FeAl_{1-x}Si_x surface. *Rare Metals*, **2012**, 31, 107-111 5-5 16
- 21 Electronic structures of new tunnel barrier spinel MgAl₂O₄: first-principles calculations. *Rare Metals*, **2012**, 31, 112-116 5-5 10
- 20 Effect of defect complex on magnetic properties of (Fe, Mn)-doped ZnO thin films. *Rare Metals*, **2012**, 31, 154-157 5-5 14
- 19 Enhanced Electric and Magnetic Properties of the Epitaxial $(\text{Ba}_{0.5}\text{Sr}_{0.5})\text{TiO}_3/\text{BiFeO}_3$ Multiferroic Heterostructure. *IEEE Transactions on Magnetics*, **2012**, 48, 3418-3421 2 21
- 18 Room Temperature Ferromagnetism in Lithium-Doped ZnO. *IEEE Transactions on Magnetics*, **2012**, 48, 3422-3425 2 4
- 17 A clear oscillation of the interlayer exchange coupling in Co₂FeAl/Cr/Co₂FeAl structure with MgO capping layer. *Journal of Applied Physics*, **2012**, 112, 073904 2-5 3
- 16 A first-principles study of the magnetic properties in boron-doped ZnO. *Chinese Physics B*, **2012**, 21, 047504 5-4 12

15	BALLISTIC ELECTRON TRANSPORT IN A HYBRID FERROMAGNET/TWO-DIMENSIONAL ELECTRON GAS NANOSTRUCTURE. <i>Modern Physics Letters B</i> , 2012 , 26, 1250191	1.6	
14	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
13	ENHANCED MULTIFERROIC PROPERTIES OF BiFeO ₃ CERAMICS BY Mo DOPING. <i>Modern Physics Letters B</i> , 2011 , 25, 1521-1528	1.6	3
12	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
11	Intrinsic room temperature ferromagnetism in boron-doped ZnO. <i>Applied Physics Letters</i> , 2010 , 97, 232502	3.4	62
10	Fe@Ag core-shell nanoparticles with both sensitive plasmonic properties and tunable magnetism. <i>Materials Letters</i> , 2010 , 64, 1732-1734	3.3	45
9	Enhanced magnetic properties of cobalt nanoparticles on FeMn films. <i>Materials Letters</i> , 2010 , 64, 2424-2426	3.3	4
8	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
7	Synthetic antiferromagnet with Heusler alloy Co ₂ FeAl ferromagnetic layers. <i>Journal of Applied Physics</i> , 2009 , 106, 123902	2.5	12
6	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
5	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
4	Enhancement of Interfacial Polarization in BaTiO ₃ Thin Films via Oxygen Inhomogeneity. <i>Advanced Electronic Materials</i> , 2100876	6.4	2
3	Room-Temperature Non-Local Spin Transport in Few-Layer Black Phosphorus Passivated with MgO. <i>Advanced Electronic Materials</i> , 2101048	6.4	1
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	