

Yongbing Xu

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.

116
papers

1,902
citations

22
h-index

39
g-index

125
ext. papers

2,383
ext. citations

5.5
avg, IF

4.68
L-index

#	Paper	IF	Citations
116	Isotropic spin polarization in Heusler Co ₂ FeAl thin films. <i>AIP Advances</i> , 2022 , 12, 025005	1.5	1
115	Fully Optical Modulation of the Two-Dimensional Electron Gas at the AlO/SrTiO Interface.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2976-2985	6.4	1
114	Observation of an anisotropic ultrafast spin relaxation process in large-area WTe ₂ films. <i>Journal of Applied Physics</i> , 2022 , 131, 163903	2.5	
113	Probing the atomic-scale ferromagnetism in van der Waals magnet CrSiTe ₃ . <i>Applied Physics Letters</i> , 2021 , 119, 172402	3.4	1
112	Large Linear Magnetoresistance of High-Mobility 2D Electron System at Nonisostructural Al ₂ O ₃ /SrTiO ₃ Heterointerfaces. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2101235	4.6	3
111	Sub-Femtosecond Timing Jitter From a SESAM Mode-Locked Yb-Fiber Laser. <i>IEEE Photonics Technology Letters</i> , 2021 , 33, 1309-1312	2.2	
110	Time-Response-Histogram-Based Feature of Magnetic Barkhausen Noise for Material Characterization Considering Influences of Grain and Grain Boundary under In Situ Tensile Test. <i>Sensors</i> , 2021 , 21,	3.8	1
109	Broadband Photodetectors: Broadband Bi ₂ O ₂ Se Photodetectors from Infrared to Terahertz (Adv. Funct. Mater. 14/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170093	15.6	3
108	Room-temperature intrinsic ferromagnetism in epitaxial CrTe ultrathin films. <i>Nature Communications</i> , 2021 , 12, 2492	17.4	42
107	Current-Direction-Dependent Depinning of Vortex Domain Walls in Permalloy Zigzag Nanowires. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	
106	Strain-Controlled Spin Wave Excitation and Gilbert Damping in Flexible Co ₂ FeSi Films Activated by Femtosecond Laser Pulse. <i>Advanced Functional Materials</i> , 2021 , 31, 2007211	15.6	2
105	Recent Advances on Spin-Polarized Two-Dimensional Electron Gases at Oxide Interfaces. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 128-144	4	5
104	Impurity band assisted carrier relaxation in Cr doped topological insulator Bi ₂ Se ₃ . <i>Applied Physics Letters</i> , 2021 , 118, 081103	3.4	2
103	Tuning interfacial spin pump in Ta/CoFeB/MgO films by ultrafast laser pulse. <i>Applied Physics Letters</i> , 2021 , 119, 092404	3.4	0
102	Giant Topological Hall Effect in van der Waals Heterostructures of CrTe/BiTe. <i>ACS Nano</i> , 2021 , 15, 15710-15719	16.5	15
101	Antisymmetric magnetoresistance in Fe ₃ GeTe ₂ nanodevices of inhomogeneous thickness. <i>Physical Review B</i> , 2021 , 104,	3.3	1
100	Sub-100 femtosecond time scale spin dynamics in epitaxial Fe ₃ O ₄ thin film. <i>Applied Surface Science</i> , 2021 , 572, 151456	6.7	2

99	Broadband Bi ₂ O ₂ Se Photodetectors from Infrared to Terahertz. <i>Advanced Functional Materials</i> , 2021 , 31, 2009554	15.6	26
98	Tuning of the Magnetic Damping Parameter by Varying Cr Composition in Fe _{1-x} Cr _x Alloy. <i>Chinese Physics Letters</i> , 2020 , 37, 107502	1.8	0
97	Manipulation of Gilbert damping in ultrathin half-metallic Co ₂ FeAl _{1+x} by composition-deficiency-compensation. <i>Applied Physics Letters</i> , 2020 , 116, 212406	3.4	4
96	Interlayer transmission of magnons in dynamic spin valve structures. <i>Applied Physics Letters</i> , 2020 , 116, 132403	3.4	1
95	Paradigm of Magnetic Domain Wall-Based In-Memory Computing. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2375-2382	4	9
94	Light-Tunable Ferromagnetism in Atomically Thin Fe ₃ GeTe ₂ Driven by Femtosecond Laser Pulse. <i>Physical Review Letters</i> , 2020 , 125, 267205	7.4	17
93	Element-specific spin and orbital moments and perpendicular magnetic anisotropy in Ta/CoFeB/MgO structures. <i>Journal of Applied Physics</i> , 2020 , 127, 063903	2.5	3
92	Selective and efficient sequestration of phosphate from waters using reusable nano-Zr(IV) oxide impregnated agricultural residue anion exchanger. <i>Science of the Total Environment</i> , 2020 , 700, 134999	10.2	19
91	Two-dimensional ferromagnetic superlattices. <i>National Science Review</i> , 2020 , 7, 745-754	10.8	17
90	Direct observation of ferrimagnetic ordering in inverse Heusler alloy Mn ₂ CoAl. <i>Applied Physics Letters</i> , 2020 , 117, 012401	3.4	2
89	Magnetic skyrmionium diode with a magnetic anisotropy voltage gating. <i>Applied Physics Letters</i> , 2020 , 117, 202401	3.4	10
88	Enhancement of the spin-orbit torque efficiency in W/Cu/CoFeB heterostructures via interface engineering. <i>Applied Physics Letters</i> , 2020 , 117, 082409	3.4	4
87	Bi ₂ O ₂ Se/Au-Based Schottky Phototransistor With Fast Response and Ultrahigh Responsivity. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1464-1467	4.4	2
86	Strong interface-induced spin-charge conversion in YIG/Cr heterostructures. <i>Applied Physics Letters</i> , 2020 , 117, 112402	3.4	6
85	Tailoring exciton dynamics of monolayer transition metal dichalcogenides by interfacial electron-phonon coupling. <i>Communications Physics</i> , 2019 , 2,	5.4	19
84	Ultrafast Orbital-Oriented Control of Magnetization in Half-Metallic La Sr MnO Films. <i>Advanced Materials</i> , 2019 , 31, e1806443	24	11
83	Observation of Small Polaron and Acoustic Phonon Coupling in Ultrathin La _{0.7} Sr _{0.3} MnO ₃ /SrTiO ₃ Structures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1800657	2.5	2
82	Spin-ARPES EUV Beamline for Ultrafast Materials Research and Development. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 370	2.6	7

81	Enhancement of intrinsic magnetic damping in defect-free epitaxial Fe ₃ O ₄ thin films. <i>Applied Physics Letters</i> , 2019 , 114, 192406	3.4	12
80	Femtosecond laser-heating effect on the magnetization dynamics in perpendicularly magnetized Ta/CoFeB/MgO film. <i>New Journal of Physics</i> , 2019 , 21, 053032	2.9	2
79	Quantum Oscillations from Nontrivial States in Quasi-Two-Dimensional Dirac Semimetal ZrTe Nanowires. <i>Scientific Reports</i> , 2019 , 9, 3558	4.9	2
78	Ultrafast free carrier dynamics in black phosphorus/holybdenum disulfide (BP/MoS ₂) heterostructures. <i>Nanoscale Horizons</i> , 2019 , 4, 1099-1105	10.8	26
77	Experimental observation of dual magnetic states in topological insulators. <i>Science Advances</i> , 2019 , 5, eaav2088	14.3	15
76	Electrolyte gate controlled metal-insulator transitions of the CaZrO ₃ /SrTiO ₃ heterointerface. <i>Applied Physics Letters</i> , 2019 , 115, 061601	3.4	9
75	Enhanced magnetoresistance in NiFe/GaAs/Fe hybrid magnon valve. <i>Applied Physics Letters</i> , 2019 , 115, 072407	3.4	
74	Magnetic anisotropy of half-metallic Co ₂ FeAl ultra-thin films epitaxially grown on GaAs(001). <i>AIP Advances</i> , 2019 , 9, 065002	1.5	1
73	Sensitive and Ultrabroadband Phototransistor Based on Two-Dimensional Bi ₂ O ₂ Se Nanosheets. <i>Advanced Functional Materials</i> , 2019 , 29, 1905806	15.6	53
72	Strain-driven lattice distortion and the resultant magnetic properties of La _{0.7} Sr _{0.3} MnO ₃ /BaTiO ₃ superlattices. <i>Applied Physics Letters</i> , 2019 , 115, 201604	3.4	3
71	All-carbon hybrids for high-performance electronics, optoelectronics and energy storage. <i>Science China Information Sciences</i> , 2019 , 62, 1	3.4	4
70	High-resolution patterning of solution-processable materials via externally engineered pinning of capillary bridges. <i>Nature Communications</i> , 2018 , 9, 393	17.4	16
69	Broadband nonlinear optical response of monolayer MoSe ₂ under ultrafast excitation. <i>Applied Physics Letters</i> , 2018 , 112, 031108	3.4	21
68	Topological Phase Transition-Induced Triaxial Vector Magnetoresistance in (BiIn)Se Nanodevices. <i>ACS Nano</i> , 2018 , 12, 1537-1543	16.7	11
67	Direct Demonstration of the Emergent Magnetism Resulting from the Multivalence Mn in a LaMnO ₃ Epitaxial Thin Film System. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800055	6.4	19
66	Broadband photocarrier dynamics and nonlinear absorption of PLD-grown WTe ₂ semimetal films. <i>Applied Physics Letters</i> , 2018 , 112, 171112	3.4	25
65	Transport evidence of 3D topological nodal-line semimetal phase in ZrSiS. <i>Frontiers of Physics</i> , 2018 , 13, 1	3.7	22
64	The effect of growth sequence on magnetization damping in Ta/CoFeB/MgO structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 450, 65-69	2.8	7

63	Three-dimensional Dirac semimetal thin-film absorber for broadband pulse generation in the near-infrared. <i>Optics Letters</i> , 2018 , 43, 1503-1506	3	38
62	Roles of heating and helicity in ultrafast all-optical magnetization switching in TbFeCo. <i>Applied Physics Letters</i> , 2018 , 113, 032405	3.4	15
61	Evidence for Layered Quantized Transport in Dirac Semimetal ZrTe. <i>Scientific Reports</i> , 2018 , 8, 5125	4.9	10
60	Ultrahigh Hall mobility and suppressed backward scattering in layered semiconductor Bi ₂ O ₂ Se. <i>Applied Physics Letters</i> , 2018 , 113, 072106	3.4	21
59	Observation of bimolecular recombination in high mobility semiconductor Bi ₂ O ₂ Se using ultrafast spectroscopy. <i>Applied Physics Letters</i> , 2018 , 113, 061104	3.4	7
58	Photoresponsivity of an all-semimetal heterostructure based on graphene and WTe. <i>Scientific Reports</i> , 2018 , 8, 12840	4.9	10
57	Emergent Ferromagnetism: Direct Demonstration of the Emergent Magnetism Resulting from the Multivalence Mn in a LaMnO ₃ Epitaxial Thin Film System (Adv. Electron. Mater. 6/2018). <i>Advanced Electronic Materials</i> , 2018 , 4, 1870030	6.4	
56	The atomic-scale magnetism of Co ₂ FeAl Heusler alloy epitaxial thin films. <i>Applied Physics Letters</i> , 2018 , 113, 212401	3.4	3
55	Enhanced Photocatalytic Activity of 2H-MoSe ₂ by 3d Transition-Metal Doping. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26570-26575	3.8	19
54	The metal-insulator transition in ZrTe ₅ induced by temperature. <i>AIP Advances</i> , 2018 , 8, 125110	1.5	3
53	Direct observation of high spin polarization in CoFeAl thin films. <i>Scientific Reports</i> , 2018 , 8, 8074	4.9	13
52	Temperature-induced band shift in bulk InSe by angle-resolved photoemission spectroscopy. <i>AIP Advances</i> , 2018 , 8, 055123	1.5	5
51	A robust and tuneable mid-infrared optical switch enabled by bulk Dirac fermions. <i>Nature Communications</i> , 2017 , 8, 14111	17.4	126
50	Robust Interfacial Exchange Bias and Metal-Insulator Transition Influenced by the LaNiO Layer Thickness in LaSrMnO/LaNiO Superlattices. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3156-3160	9.5	22
49	Unsaturated magnetoconductance of epitaxial La _{0.7} Sr _{0.3} MnO ₃ thin films in pulsed magnetic fields up to 60 T. <i>AIP Advances</i> , 2017 , 7, 056404	1.5	7
48	Observation of Quantum Hall effect in an ultra-thin (Bi _{0.53} Sb _{0.47}) ₂ Te ₃ film. <i>Applied Physics Letters</i> , 2017 , 110, 212401	3.4	11
47	Carbon Nanotube Mode-Locked Thulium Fiber Laser With 200 nm Tuning Range. <i>Scientific Reports</i> , 2017 , 7, 45109	4.9	60
46	Graphene-carbon nanotube hybrid films for high-performance flexible photodetectors. <i>Nano Research</i> , 2017 , 10, 1880-1887	10	44

45	Giant Tunability of the Two-Dimensional Electron Gas at the Interface of BaO/SrTiO. <i>Nano Letters</i> , 2017 , 17, 6878-6885	11.5	29
44	Controlled skyrmion nucleation in extended magnetic layers using a nanocontact geometry. <i>Physical Review B</i> , 2017 , 96,	3.3	11
43	Broadband hot-carrier dynamics in three-dimensional Dirac semimetal Cd3As2. <i>Applied Physics Letters</i> , 2017 , 111, 091101	3.4	32
42	Bandgap renormalization in single-wall carbon nanotubes. <i>Scientific Reports</i> , 2017 , 7, 11221	4.9	9
41	Tuning the transport behavior of centimeter-scale WTe2 ultrathin films fabricated by pulsed laser deposition. <i>Applied Physics Letters</i> , 2017 , 111, 031906	3.4	29
40	Magnetic domain wall engineering in a nanoscale permalloy junction. <i>Applied Physics Letters</i> , 2017 , 111, 072401	3.4	10
39	Interface Magnetic and Electrical Properties of CoFeB /InAs Heterostructures. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	
38	Suppressed carrier density for the patterned high mobility two-dimensional electron gas at BaO/SrTiO3 heterointerfaces. <i>Applied Physics Letters</i> , 2017 , 111, 021602	3.4	14
37	Dual-pump manipulation of ultrafast demagnetization in TbFeCo. <i>Physical Review B</i> , 2016 , 93,	3.3	11
36	Evidence of weak localization in quantum interference effects observed in epitaxial La0.7Sr0.3MnO3 ultrathin films. <i>Scientific Reports</i> , 2016 , 6, 26081	4.9	53
35	Probing the Buried Magnetic Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5752-7	9.5	7
34	Unique Current-Direction-Dependent ON/OFF Switching in BiSbTeSe2 Topological Insulator-Based Spin Valve Transistors. <i>IEEE Electron Device Letters</i> , 2016 , 1-1	4.4	7
33	Evidence for ferromagnetic coupling at the doped topological insulator/ferrimagnetic insulator interface. <i>AIP Advances</i> , 2016 , 6, 055813	1.5	8
32	Transient enhancement of magnetization damping in CoFeB film via pulsed laser excitation. <i>Applied Physics Letters</i> , 2016 , 109, 042401	3.4	19
31	Quantum Electronics: Evidence of Both Surface and Bulk Dirac Bands and Anisotropic Nonsaturating Magnetoresistance in ZrSiS (Adv. Electron. Mater. 10/2016). <i>Advanced Electronic Materials</i> , 2016 , 2,	6.4	3
30	Spin-Dependent Transport in Fe/GaAs(100)/Fe Vertical Spin-Valves. <i>Scientific Reports</i> , 2016 , 6, 29845	4.9	10
29	Element specific spin and orbital moments of nanoscale CoFeB amorphous thin films on GaAs(100). <i>AIP Advances</i> , 2016 , 6, 095011	1.5	5
28	Ultrafast nonlinear photoresponse of single-wall carbon nanotubes: a broadband degenerate investigation. <i>Nanoscale</i> , 2016 , 8, 9304-9	7.7	32

27	Stable Gain-Switched Thulium Fiber Laser With 140-nm Tuning Range. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 1340-1343	2.2	13
26	Enhancing the Spin-Orbit Coupling in FeO Epitaxial Thin Films by Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27353-27359	9.5	14
25	Evidence of Both Surface and Bulk Dirac Bands and Anisotropic Nonsaturating Magnetoresistance in ZrSiS. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600228	6.4	98
24	Effect of Superparamagnetic Fe ₃ O ₄ Nanoparticles on Schottky Barriers of Graphene. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	
23	Planar carbon nanotube-graphene hybrid films for high-performance broadband photodetectors. <i>Nature Communications</i> , 2015 , 6, 8589	17.4	197
22	Atomic-Scale Magnetism of Cr-Doped Bi ₂ Se ₃ Thin Film Topological Insulators. <i>ACS Nano</i> , 2015 , 9, 10237-10247	13.7	46
21	Enhancing magnetic ordering in Cr-doped Bi ₂ Se ₃ using high-TC ferrimagnetic insulator. <i>Nano Letters</i> , 2015 , 15, 764-9	11.5	69
20	MFM Observation of Twin Pinning Sites on NiFe Nanowires. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 1334-1336	2	1
19	Electronic and magnetic structure of C ₆₀ /Fe ₃ O ₄ (001): a hybrid interface for organic spintronics. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1197-1202	7.1	31
18	Origin of room temperature ferromagnetism in MgO films. <i>Applied Physics Letters</i> , 2013 , 102, 072406	3.4	48
17	Effect of oxygen deficiency on room temperature ferromagnetism in Co doped ZnO. <i>Applied Physics Letters</i> , 2012 , 100, 202401	3.4	46
16	Depinning of vortex domain walls from an asymmetric notch in a permalloy nanowire. <i>Applied Physics Letters</i> , 2012 , 101, 082402	3.4	16
15	Local magnetic switching in patterned permalloy elements by focussed-MOKE measurements. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 66-69		5
14	Effect of defects on room-temperature ferromagnetism in Co and Na co-doped ZnO. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 107, 919-923	2.6	6
13	Evidence of the defect-induced ferromagnetism in Na and Co codoped ZnO. <i>Applied Physics Letters</i> , 2011 , 98, 012502	3.4	38
12	Interface electrical properties of Fe ₃ O ₄ /MgO/GaAs(100) epitaxial spin contacts. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 2344-2347	1.6	4
11	Growth evolution and superparamagnetism of ultrathin Fe films grown on GaN(0001) surfaces. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 2348-2351	1.6	5
10	Growth and magnetic properties of ultrathin single crystal Fe ₃ O ₄ film on InAs(100). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 2377-2379	1.6	7

9	Influence of Rare Earth Ho ³⁺ Doping on Structural, Microstructure and Magnetic Properties of ZnO Bulk and Thin Film Systems. <i>Chinese Journal of Chemical Physics</i> , 2011 , 24, 353-357	0.9	10
8	The effect of interelement dipole coupling in patterned ultrathin single crystal Fe square arrays. <i>Journal of Applied Physics</i> , 2011 , 109, 033913	2.5	3
7	Interfacial structure and magnetic properties of Co ₂ FeAl _{0.5} Si _{0.5} /MgO heterostructures. <i>Journal of Applied Physics</i> , 2010 , 107, 103919	2.5	10
6	The Properties and Structure Relationship of Half Metallic Magnetic Materials on GaAs. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 4360-4363	2	3
5	Epitaxial Growth and Magnetic Properties of Half-Metallic Fe ₃ O ₄ on Si(100) Using MgO Buffer Layer. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 4357-4359	2	20
4	Magnetic and Structural Properties of Fully Epitaxial Fe ₃ O ₄ /MgO/GaAs(100) for Spin Injection. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2640-2642	2	11
3	XPS and XMCD study of Fe ₃ O ₄ /GaAs interface. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 2808-2810	2	14
2	Annealing-induced Fe oxide nanostructures on GaAs. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 3328-3330		3
1	Self-Intercalation Tunable Interlayer Exchange Coupling in a Synthetic van der Waals Antiferromagnet. <i>Advanced Functional Materials</i> , 2202977	15.6	2