

Xiaoshan Xu

List of Publications by Year in descending order

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4088
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#	ARTICLE	IF	CITATIONS
1	Sensitive metallic behavior in epitaxial NiCo ₂ O ₄ films regulated by the film thickness. Journal of Physics and Chemistry of Solids, 2022, 160, 110321.	4.0	8
2	Surface-to-bulk core level shift in CoFe ₂ O ₄ thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 023201.	2.1	2
3	Highly Oriented Organic Ferroelectric Films with Single-Crystal-Level Properties from Restrained Crystallization. Crystal Growth and Design, 2022, 22, 2124-2131.	3.0	3
4	Intermolecular Interaction and Cooperativity in an Fe(II) Spin Crossover Molecular Thin Film System. Journal of Physics Condensed Matter, 2022, 34, .	1.8	3
5	Magnetic moments and spin structure in single-phase B20 Co _{1+x} Si _{1-x} (x=0.043). Journal of Applied Physics, 2022, 131, .	2.5	0
6	Tunable physical properties in Bi-based layered supercell multiferroics embedded with Au nanoparticles. Nanoscale Advances, 2022, 4, 3054-3064.	4.6	7
7	TiN/Fe Vertically Aligned Nanocomposites Integrated on Silicon as a Multifunctional Platform toward Device Applications. Crystals, 2022, 12, 849.	2.2	3
8	Intrinsic ferroelectricity in Y-doped HfO ₂ thin films. Nature Materials, 2022, 21, 903-909.	27.5	66
9	Epitaxial NiCo ₂ O ₄ film as an emergent spintronic material: Magnetism and transport properties. Journal of Applied Physics, 2022, 132, .	2.5	14
10	Nitride/Oxide/Metal Heterostructure with Self-Assembled Core/Shell Nanopillar Arrays: Effect of Ordering on Magneto-Optical Properties. Small, 2021, 17, e2007222.	10.0	25
11	Nonvolatile Voltage Controlled Molecular Spin-State Switching for Memory Applications. Magnetochemistry, 2021, 7, 37.	2.4	29
12	Colossal intrinsic exchange bias from interfacial reconstruction in epitaxial CoFe ₂ O ₄ /Al ₂ O ₃ thin films. Physical Review B, 2021, 103, .	3.2	4
13	Revealing pressure-driven structural transitions in the hybrid improper ferroelectric $Sr_{3-x}Sn_2O_7$. Physical Review B, 2021, 104, .	3.2	8
14	Strong Interfacial Coupling of Tunable NiO/NiO Nanocomposite Thin Films Formed by Self-Decomposition. ACS Applied Materials & Interfaces, 2021, 13, 39730-39737.	8.0	7
15	Tuning Negative Capacitance in $Pb_{1-x}Zr_xO_3$ with $x > 0.2$. Physical Review Applied, 2021, 16, .	9.9	9
16	Magnetic Field Perturbations to a Soft X-ray-Activated Fe (II) Molecular Spin State Transition. Magnetochemistry, 2021, 7, 135.	2.4	6
17	Au-Encapsulated Fe Nanorods in Oxide Matrix with Tunable Magneto-Optic Coupling Properties. ACS Applied Materials & Interfaces, 2020, 12, 51827-51836.	8.0	16
18	Metal-Free Oxide-Nitride Heterostructure as a Tunable Hyperbolic Metamaterial Platform. Nano Letters, 2020, 20, 6614-6622.	9.1	38

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19	Absolute crystal and magnetic chiralities in the langasite compound Ba ₃ NbFe ₃ Si ₂ O ₁₄ determined by polarized neutron and x-ray scattering. <i>Physical Review B</i> , 2020, 102, .	3.2	4
20	Nonmonotonic crossover in electronic phase separated manganite superlattices driven by the superlattice period. <i>Physical Review B</i> , 2020, 102, .	3.2	6
21	Synergistic computational and experimental discovery of novel magnetic materials. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 1098-1117.	3.4	13
22	Spin Rectification and Electrically Controlled Spin Transport in Molecular-Ferroelectrics-Based Spin Valves. <i>Physical Review Applied</i> , 2020, 13, .	3.8	9
23	Abrupt enhancement of spin-orbit scattering time in ultrathin semimetallic SrIrO ₃ close to the metal-insulator transition. <i>APL Materials</i> , 2020, 8, .	5.1	9
24	Perpendicular magnetic anisotropy in conducting NiCo ₂ O ₄ films from spin-lattice coupling. <i>Physical Review B</i> , 2020, 101, .	3.2	45
25	Tuning the interfacial spin-orbit coupling with ferroelectricity. <i>Nature Communications</i> , 2020, 11, 2627.	12.8	19
26	Discovering rare-earth-free magnetic materials through the development of a database. <i>Physical Review Materials</i> , 2020, 4, .	2.4	11
27	Probing ferroelectricity by x-ray absorption spectroscopy in molecular crystals. <i>Physical Review Materials</i> , 2020, 4, .	2.4	4
28	Spin-liquid-like state in pure and Mn-doped TbInO ₃ with a nearly triangular lattice. <i>Physical Review B</i> , 2019, 100, .	3.2	10
29	Nonvolatile Multilevel States in Multiferroic Tunnel Junctions. <i>Physical Review Applied</i> , 2019, 12, .	3.8	11
30	Spin-wave directional anisotropies in antiferromagnetic Ba ₃ NbFe ₃ Si ₂ O ₁₄ . <i>Physical Review B</i> , 2019, 100, .	3.2	5
31	Nonvolatile voltage controlled molecular spin state switching. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	50
32	Structural phase diagram and magnetic properties of Sc-substituted rare earth ferrites Sc _x FeO ₃ (R=Lu, Yb, Er, and Ho). <i>Journal of Applied Physics</i> , 2019, 125, 25.	2.5	11
33	Tunable spin-state bistability in a spin crossover molecular complex. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 315401.	1.8	18
34	Electric-field assisted nucleation processes of croconic acid films. <i>CrystEngComm</i> , 2019, 21, 7460-7467.	2.6	9
35	Magnetotransport Anomaly in Room-Temperature Ferrimagnetic NiCo ₂ O ₄ Thin Films. <i>Advanced Materials</i> , 2019, 31, e1805260.	21.0	47
36	Ferroelectric polarization control of magnetic anisotropy in PbZr _{0.2} Ti _{0.8} O ₃ films. <i>Physical Review B</i> , 2019, 100, .	2.4	18

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37	Nonlinear spin structure in F_eC_3	2.4	5
38	Nanostructural origin of semiconductivity and large magnetoresistance in epitaxial $\text{NiCo}_2\text{O}_4/\text{Al}_2\text{O}_3$ thin films. Journal Physics D: Applied Physics, 2018, 51, 145308.	2.8	45
39	A brief review of ferroelectric control of magnetoresistance in organic spin valves. Journal of Materiomics, 2018, 4, 1-12.	5.7	8
40	Some device implications of voltage controlled magnetic anisotropy in $\text{Co}/\text{Gd}_2\text{O}_3$ thin films through REDOX chemistry. Journal of Magnetism and Magnetic Materials, 2018, 451, 487-492.	2.3	2
41	Indications of magnetic coupling effects in spin cross-over molecular thin films. Chemical Communications, 2018, 54, 944-947.	4.1	24
42	Tuning the Néel Temperature of Hexagonal Ferrites by Structural Distortion. Physical Review Letters, 2018, 121, 237203.	7.8	29
43	Magnetic excitations in the bulk multiferroic two-dimensional triangular lattice antiferromagnet $\text{Lu}_2\text{V}_2\text{O}_7$. Physical Review B, 2018, 98, .	3.2	18
44	Honeycomb lattice Na_2IrO_3 at high pressures: A robust spin-orbit Mott insulator. Physical Review B, 2018, 98, .	3.2	12
45	Magnetism of new metastable cobalt-nitride compounds. Nanoscale, 2018, 10, 13011-13021.	5.6	24
46	Anti-site mixing and magnetic properties of $\text{Fe}_3\text{Co}_3\text{Nb}_2$ studied via neutron powder diffraction. Journal Physics D: Applied Physics, 2017, 50, 025002.	2.8	6
47	Effects of biaxial strain on the improper multiferroicity in LuFeO_3 films studied using the restrained thermal expansion method. Physical Review B, 2017, 95, .	3.2	14
48	Effect of interface on epitaxy and magnetism in $\text{h-RFeO}_3/\text{Fe}_3\text{O}_4/\text{Al}_2\text{O}_3$ films ($\text{R} = \text{Lu, Yb}$) Journal of Physics Condensed Matter, 2017, 29, 164001.		
49	Locking and Unlocking the Molecular Spin Crossover Transition. Advanced Materials, 2017, 29, 1702257.	21.0	55
50	Electronic structure and direct observation of ferrimagnetism in multiferroic hexagonal YbFeO_3 . Physical Review B, 2017, 95, .	3.2	17
51	On the structural origin of the single-ion magnetic anisotropy in LuFeO_3 . Journal of Physics Condensed Matter, 2016, 28, 156001.	1.8	20
52	Structure and magnetism of new rare-earth-free intermetallic compounds: $\text{Fe}_3+\text{xCo}_3\text{xTi}_2$ ($0 \leq \text{x} \leq 3$). APL Materials, 2016, 4, .	5.1	8
53	Room temperature ferroelectricity in continuous croconic acid thin films. Applied Physics Letters, 2016, 109, .	3.3	33
54	Kinetics and intermediate phases in epitaxial growth of Fe_3O_4 films from deposition and thermal reduction. Journal of Applied Physics, 2016, 120, .	2.5	19

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55	Phase separation in LuFeO ₃ films. Applied Physics Letters, 2016, 108, .	3.3	13
56	Chemical ordering suppresses large-scale electronic phase separation in doped manganites. Nature Communications, 2016, 7, 11260.	12.8	64
57	The stability and surface termination of hexagonal LuFeO ₃ . Journal of Physics Condensed Matter, 2015, 27, 175004.	1.8	8
58	Ultrafast Dynamics of Multiferroic h-LuFeO ₃ . , 2015, , .		0
59	The influence of charge and magnetic order on polaron and acoustic phonon dynamics in LuFe ₂ O ₄ . Applied Physics Letters, 2015, 107, .	3.3	2
60	Active control of magnetoresistance of organic spin valves using ferroelectricity. Nature Communications, 2014, 5, 4396.	12.8	51
61	Structural and electronic origin of the magnetic structures in hexagonal LuFeO ₃ . Physical Review B, 2014, 90, .	3.2	38
62	Multiferroic hexagonal ferrites (h-RuFeO ₃ , h-R ₂ Y ₂ Dy ₂ Lu): a brief experimental review. Modern Physics Letters B, 2014, 28, 1430008.		68
63	Stacking Principle and Magic Sizes of Transition Metal Nanoclusters Based on Generalized Wulff Construction. Physical Review Letters, 2013, 111, 115501.	7.8	53
64	Room-Temperature Multiferroic Hexagonal LuFeO ₃ Films. Physical Review Letters, 2013, 110, 237601.	7.8	195
65	Electrophoretic-like Gating Used To Control Metal-Insulator Transitions in Electronically Phase Separated Manganite Wires. Nano Letters, 2013, 13, 3749-3754.	9.1	31
66	Probing the Interplay between Quantum Charge Fluctuations and Magnetic Ordering in LuFe ₂ O ₄ . Scientific Reports, 2013, 3, 2654.	3.3	15
67	Growth diagram of La _{0.7} Sr _{0.3} MnO ₃ thin films using pulsed laser deposition. Journal of Applied Physics, 2013, 113, .	2.5	20
68	Infrared phonon modes in multiferroic single-crystal FeTeO ₅ . Physical Review B, 2013, 87, .	3.2	31
69	Crystal field splitting and optical bandgap of hexagonal LuFeO ₃ films. Applied Physics Letters, 2012, 101, .	3.3	51
70	Growth diagram and magnetic properties of hexagonal LuFeO ₂ O ₄ thin films. Physical Review B, 2012, 85, .	3.2	25
71	High Tunability of the Surface-Enhanced Raman Scattering Response with a Metal-Multiferroic Composite. Nano Letters, 2011, 11, 1265-1269.	9.1	22
72	Experimental Determination of Ionicity in MnO Nanoparticles. Chemistry of Materials, 2011, 23, 2956-2960.	6.7	15

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73	Metastability of Free Cobalt and Iron Clusters: A Possible Precursor to Bulk Ferromagnetism. Physical Review Letters, 2011, 107, 057203.	7.8	35
74	Adsorption-controlled growth of BiMnO ₃ films by molecular-beam epitaxy. Applied Physics Letters, 2010, 96, .	3.3	45
75	Tunable band gap in Bi(Fe _{1-x} Mn _x)O ₃ films. Applied Physics Letters, 2010, 96, .	3.3	70
76	Size-Dependent Infrared Phonon Modes and Ferroelectric Phase Transition in BiFeO ₃ Nanoparticles. Nano Letters, 2010, 10, 4526-4532.	9.1	146
77	Optical properties of quasi-tetragonal BiFeO ₃ thin films. Applied Physics Letters, 2010, 96, .	3.3	153
78	Optical properties and magnetochromism in multiferroic BiFeO ₃ . Physical Review B, 2009, 79, .	3.2	149
79	Spin-charge-lattice coupling through resonant multimagnon excitations in multiferroic BiFeO ₃ . Applied Physics Letters, 2009, 94, 161905.	3.3	43
80	Absence of Spin Liquid Behavior in Nd ₃ Ga ₅ SiO ₁₄ Using Magneto-Optical Spectroscopy. Physical Review Letters, 2009, 103, 267402.	7.8	14
81	Electron Pairing in Ferroelectric Niobium and Niobium Alloy Clusters. Journal of Superconductivity and Novel Magnetism, 2008, 21, 265-269.	1.8	12
82	Photoconductivity in BiFeO ₃ thin films. Applied Physics Letters, 2008, 92, .	3.3	447
83	Charge Order, Dynamics, and Magnetostructural Transition in Multiferroic LuFe ₂ O ₄ . Physical Review Letters, 2008, 101, 227602.	7.8	141
84	Distribution of magnetization of a cold ferromagnetic cluster beam. Physical Review B, 2008, 78, .	3.2	29
85	Optical band gap of BiFeO ₃ grown by molecular-beam epitaxy. Applied Physics Letters, 2008, 92, .	3.3	345
86	Magnetic Enhancement in Cobalt-Manganese Alloy Clusters. Physical Review Letters, 2007, 98, 113401.	7.8	82
87	Nonclassical dipoles in cold niobium clusters. Physical Review B, 2007, 75, .	3.2	18
88	Measurement of magnetic moments of free BiN _m M _n clusters. Physical Review B, 2005, 72, .	3.2	38
89	Magnetic Moments and Adiabatic Magnetization of Free Cobalt Clusters. Physical Review Letters, 2005, 95, 237209.	7.8	163
90	Spin Uncoupling in Free Nb Clusters: Support for Nascent Superconductivity. Physical Review Letters, 2004, 93, 086803.	7.8	54

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91	Ferroelectricity in Free Niobium Clusters.. ChemInform, 2003, 34, no.	0.0	0
92	Ferroelectricity in Free Niobium Clusters. Science, 2003, 300, 1265-1269.	12.6	130
93	Phase transition related stress in ferroelectric thin films. Thin Solid Films, 2000, 375, 15-18.	1.8	13
94	Phase coherence effect on the normal state internal friction in underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Physica C: Superconductivity and Its Applications, 2000, 337, 208-212.	1.2	0
95	Study on the anomalies of thermoelectric power due to the normal-state pseudogap in underdoped cuprates. Physica C: Superconductivity and Its Applications, 2000, 337, 277-280.	1.2	4
96	Anelastic relaxation near T_c in Zn-substituted YBCO. Physica C: Superconductivity and Its Applications, 2000, 337, 285-287.	1.2	2
97	Investigation on three internal friction peaks at low temperature in Ni doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Physica C: Superconductivity and Its Applications, 2000, 341-348, 601-602.	1.2	2
98	Effect of zinc doping on the microstructure in YBCO. Physica C: Superconductivity and Its Applications, 2000, 341-348, 669-670.	1.2	6
99	Structural stripe phase effect on band structure in underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1783-1784.	1.2	0
100	Acoustic attenuation study on the normal-state pseudogap in underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Europhysics Letters, 1999, 47, 104-109.	2.0	0
101	Anomalies of mechanical and transport properties above T_c in underdoped $\text{Gd}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_{6+x}$. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1053-1054.	1.2	0