Juanxiu Xiao

List of Publications by Year
in descending order

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157 papers	7,937 citations	43973 48 h-index	56606 83 g-index
159 all docs	159 docs citations	159 times ranked	9300 citing authors

#	Article	IF	Citations
1	Flexible artificial synapse based on single-crystalline BiFeO3 thin film. Nano Research, 2022, 15, 2682-2688.	5.8	37
2	Alloy electrode engineering in memristors for emulating the biological synapse. Nanoscale, 2022, 14, 1318-1326.	2.8	15
3	Evolution from Leadâ€Based to Leadâ€Free Piezoelectrics: Engineering of Lattices, Domains, Boundaries, and Defects Leading to Giant Response. Advanced Materials, 2022, 34, e2106845.	11.1	54
4	Solid-Ionic Memory in a van der Waals Heterostructure. ACS Nano, 2022, 16, 221-231.	7.3	6
5	Multifunctional MoTe₂ Feâ€FET Enabled by Ferroelectric Polarizationâ€Assisted Charge Trapping. Advanced Functional Materials, 2022, 32, .	7.8	37
6	Field-Free Switching of Perpendicular Magnetization Induced by Longitudinal Spin-Orbit-Torque Gradient. Physical Review Applied, 2022, 17, .	1.5	22
7	Large-Scale Epitaxial Growth of Ultralong Stripe BiFeO3 Films and Anisotropic Optical Properties. ACS Applied Materials & Interfaces, 2022, , .	4.0	1
8	Interfacial engineering manipulation of magnetic anisotropy evolution via orbital reconstruction in low-dimensional manganite superlattices. Science China Materials, 2022, 65, 1902-1911.	3.5	3
9	Controlling Resistance Switching Performances of Hf_{0.5}Zr_{0.5}O₂ Films by Substrate Stress and Potential in Neuromorphic Computing. Advanced Intelligent Systems, 2022, 4, .	3.3	11
10	Room-temperature spin-orbit torque switching in a manganite-based heterostructure. Physical Review B, 2022, 105, .	1.1	12
11	A Multifunctional and Efficient Artificial Visual Perception Nervous System with Sb₂Se₃/CdSâ€Core/Shell (SC) Nanorod Arrays Optoelectronic Memristor. Advanced Functional Materials, 2022, 32, .	7.8	44
12	Electrochemical Reduction of Carbon Dioxide and Iron Oxide in Molten Salts to Fe/Fe₃C Modified Carbon for Electrocatalytic Oxygen Evolution. Angewandte Chemie, 2021, 133, 2148-2152.	1.6	14
13	Electrochemical Reduction of Carbon Dioxide and Iron Oxide in Molten Salts to Fe/Fe₃C Modified Carbon for Electrocatalytic Oxygen Evolution. Angewandte Chemie - International Edition, 2021, 60, 2120-2124.	7.2	92
14	Hf0.5Zr0.5O2-based ferroelectric memristor with multilevel storage potential and artificial synaptic plasticity. Science China Materials, 2021, 64, 727-738.	3.5	51
15	The Future of Memristors: Materials Engineering and Neural Networks. Advanced Functional Materials, 2021, 31, 2006773.	7.8	187
16	Giant spin torque efficiency in single-crystalline antiferromagnet Mn2Au films. Science China Materials, 2021, 64, 2029-2036.	3.5	2
17	Bipolar Conduction and Giant Positive Magnetoresistance in Doped Metallic Titanium Oxide Heterostructures. Advanced Materials Interfaces, 2021, 8, 2002147.	1.9	2
18	Interface-engineered electron and hole tunneling. Science Advances, 2021, 7, .	4.7	25

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19	Spinâ€“Orbit Torque Switching of a High-Quality Perpendicularly Magnetized Ferrimagnetic Heusler Mn3Ge Film. ACS Applied Materials & Interfaces, 2021, 13, 18294-18300.	4.0	13
20	An Overview of Ferroelectric Hafnia and Epitaxial Growth. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100025.	1.2	21
21	Oxygen vacancy-induced topological nanodomains in ultrathin ferroelectric films. Npj Quantum Materials, 2021, 6, .	1.8	23
22	Thermal Effect in Current-Induced Magnetization Switching and Out-of-Plane Effective Field Measurements. ACS Applied Electronic Materials, 2021, 3, 2483-2489.	2.0	5
23	Ferroelectric Self-Polarization Controlled Magnetic Stratification and Magnetic Coupling in Ultrathin La_{0.67}Sr_{0.33}MnO₃ Films. ACS Applied Materials & Interfaces, 2021, 13, 30137-30145.	4.0	10
24	Prospect of Spintronics in Neuromorphic Computing. Advanced Electronic Materials, 2021, 7, 2100465.	2.6	33
25	Modulation of Spinâ€“Orbit Torque from SrRuO₃ by Epitaxialâ€Strainâ€Induced Octahedral Rotation. Advanced Materials, 2021, 33, e2007114.	11.1	29
26	Spinâ€“Orbit Torqueâ€Induced Domain Nucleation for Neuromorphic Computing. Advanced Materials, 2021, 33, e2103672.	11.1	41
27	Electric Field Control of the Magnetic Weyl Fermion in an Epitaxial SrRuO₃ (111) Thin Film. Advanced Materials, 2021, 33, e2101316.	11.1	24
28	Interfacial control of domain structure and magnetic anisotropy in La0.67Sr0.33MnO3 manganite heterostructures. Physical Review B, 2021, 104, .	1.1	5
29	Artificial Visual Perception Nervous System Based on Low-Dimensional Material Photoelectric Memristors. ACS Nano, 2021, 15, 17319-17326.	7.3	92
30	Blow spinning of preâ€“acid-activated polyamidoxime nanofibers for efficient uranium adsorption from seawater. Materials Today Energy, 2021, 21, 100735.	2.5	9
31	Molten Salt Electrochemical Modulation of Ironâ€“Carbonâ€“Nitrogen for Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2021, 60, 24905-24909.	7.2	44
32	Photo-enhanced Seebeck effect of a highly conductive thermoelectric material. Journal of Materials Chemistry A, 2021, 9, 16725-16732.	5.2	21
33	Symmetry-dependent field-free switching of perpendicular magnetization. Nature Nanotechnology, 2021, 16, 277-282.	15.6	145
34	Tunable Rashba spin-orbit coupling and its interplay with multiorbital effect and magnetic ordering at oxide interfaces. Physical Review B, 2021, 104, .	1.1	8
35	Re-entrance to a ferromagnetic insulator with oxygen-vacancy ordering in the La_{0.7}Sr_{0.3}MnO₃/SrTiO₃ superlattice. Journal of Materials Chemistry A, 2021, 9, 26717-26726.	5.2	2
36	Enhanced Tunneling Magnetoresistance Effect via Ferroelectric Control of Interface Electronic/Magnetic Reconstructions. ACS Applied Materials & Interfaces, 2021, 13, 56638-56644.	4.0	1

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37	A molten-salt electrochemical biorefinery for carbon-neutral utilization of biomass. Journal of Materials Chemistry A, 2021, 9, 27442-27447.	5.2	6
38	Memristors Based on the Hybrid Structure of Oxide and Boron Nitride Nanosheets Combining Memristive and Neuromorphic Functionalities. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900539.	1.2	7
39	Enhanced Magnetic Anisotropy and Orbital Symmetry Breaking in Manganite Heterostructures. Advanced Functional Materials, 2020, 30, 1909536.	7.8	17
40	Designing carbon conductive filament memristor devices for memory and electronic synapse applications. Materials Horizons, 2020, 7, 1106-1114.	6.4	57
41	Ferroic tunnel junctions and their application in neuromorphic networks. Applied Physics Reviews, 2020, 7, .	5.5	91
42	Investigation of Spin Transport Properties in Perpendicularly Magnetized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Mo</mml:mi><mml:mi mathvariant="normal">S</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>Pt</mml:mi><m stretchy="false">[</mml:mo><mml:mi>Co</mml:mi><mml:mo>/</mml:mo><mml:mi>Ni</mml:mi><mml:msub><mml:mo stretchy="false">]</mml:mo><mml:mi>n</mml:mi></mml:msub><mml:ma. Physical Review Applied, 2020,	1.5	3
43	Electrochemical Fixation of Carbon Dioxide in Molten Salts on Liquid Zinc Cathode to Zinc@Graphitic Carbon Spheres for Enhanced Energy Storage. Advanced Energy Materials, 2020, 10, 2002241.	10.2	58
44	A Flexible Transient Biomemristor Based on Hybrid Structure HfO₂/BSA:Au Double Layers. Advanced Materials Technologies, 2020, 5, 2000191.	3.0	15
45	Thickness and Ferroelectric Polarization Influence on Film Magnetic Anisotropy across a Multiferroic Material Interface. ACS Applied Materials & Interfaces, 2020, 12, 44317-44324.	4.0	2
46	Tuning Irreversible Magnetoresistance in Pr_{0.67}Sr_{0.33}MnO₃ Film via Octahedral Rotation. ACS Applied Materials & Interfaces, 2020, 12, 43222-43230.	4.0	4
47	Role of Interfacial Orbital Hybridization in Spin-Orbit-Torque Generation in Pt -Based Heterostructures. Physical Review Applied, 2020, 14, .	1.5	8
48	An Electronic Synapse Based on 2D Ferroelectric CuInP₂S₆. Advanced Electronic Materials, 2020, 6, 2000760.	2.6	57
49	Magnetic asymmetry induced anomalous spin-orbit torque in IrMn. Physical Review B, 2020, 101, .	1.1	36
50	A van der Waals Synaptic Transistor Based on Ferroelectric Hf_{0.5}Zr_{0.5}O₂ and 2D Tungsten Disulfide. Advanced Electronic Materials, 2020, 6, 2000057.	2.6	68
51	Electrical switching of perpendicular magnetization in a single ferromagnetic layer. Physical Review B, 2020, 101, .	1.1	66
52	Perpendicular Magnetic Anisotropy and Dzyaloshinskii-Moriya Interaction at an Oxide/Ferromagnetic Metal Interface. Physical Review Letters, 2020, 124, 217202.	2.9	27
53	Memristors mimicking the regulation of synaptic plasticity and the refractory period in the phenomenological model. Journal of Materials Chemistry C, 2020, 8, 5183-5190.	2.7	5
54	Orbital reconstruction mediated giant vertical magnetization shift and insulator-to-metal transition in superlattices based on antiferromagnetic manganites. Physical Review B, 2020, 101, .	1.1	11

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55	Memristors based on multilayer graphene electrodes for implementing a low-power neuromorphic electronic synapse. Journal of Materials Chemistry C, 2020, 8, 4926-4933.	2.7	25
56	Room temperature ferromagnetism in Dâ€“D neutron irradiated rutile TiO2 single crystals. RSC Advances, 2020, 10, 18687-18693.	1.7	4
57	Magnetoelectric Coupling Induced Orbital Reconstruction and Ferromagnetic Insulating State in PbZr_{0.52}Ti_{0.48}O₃/La_{0.67}Sr_{0.33}MnO₃ Heterostructures. ACS Applied Materials & Interfaces, 2020, 12, 35588-35597.	8.0	10
58	Overcoming the Limits of the Interfacial Dzyaloshinskiiâ€“Moriya Interaction by Antiferromagnetic Order in Multiferroic Heterostructures. Advanced Materials, 2020, 32, e1904415.	11.1	34
59	A Pure 2Hâ€MoS₂ Nanosheetâ€Based Memristor with Low Power Consumption and Linear Multilevel Storage for Artificial Synapse Emulator. Advanced Electronic Materials, 2020, 6, 1901342.	2.6	67
60	In-situ synthesis of free-standing FeNi-oxyhydroxide nanosheets as a highly efficient electrocatalyst for water oxidation. Chemical Engineering Journal, 2020, 395, 125180.	6.6	100
61	Continuously controllable photoconductance in freestanding BiFeO3 by the macroscopic flexoelectric effect. Nature Communications, 2020, 11, 2571.	5.8	93
62	Current status and prospects of memristors based on novel 2D materials. Materials Horizons, 2020, 7, 1495-1518.	6.4	101
63	Formation of two-dimensional small polarons at the conducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LaAl</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> interface. Physical Review B, 2019, 100, .	3.7	9
64	Electronic-reconstruction-enhanced hydrogen evolution catalysis in oxide polymorphs. Nature Communications, 2019, 10, 3149.	5.8	42
65	Interface-based tuning of Rashba spin-orbit interaction in asymmetric oxide heterostructures with 3d electrons. Nature Communications, 2019, 10, 3052.	5.8	51
66	Free Field Electric Switching of Perpendicularly Magnetized Thin Film by Spin Current Gradient. ACS Applied Materials & Interfaces, 2019, 11, 30446-30452.	4.0	47
67	Correlation of resistance switching and polarization rotation in copper doped zinc oxide (ZnO:Cu) thin films studied by Scanning Probe Microscopy. Journal of Materiomics, 2019, 5, 574-582.	2.8	2
68	A Boolean OR gate implemented with an optoelectronic switching memristor. Applied Physics Letters, 2019, 115, .	1.5	20
69	Tuning the polarization rotation behavior in undoped zinc oxide thin films. Journal of Alloys and Compounds, 2019, 810, 151900.	2.8	1
70	Thickness-dependent polarization-induced intrinsic magnetoelectric effects in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>0.67</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mrow><mml:mn>0.33</mml:mn></mml:mrow></mml:msub><mml:mi>Mn</mml:mi><mml:ms	1.1	24
71	Current-induced magnetization switching in all-oxide heterostructures. Nature Nanotechnology, 2019, 14, 939-944.	15.6	139
72	Large spin-orbit torque efficiency enhanced by magnetic structure of collinear antiferromagnet IrMn. Science Advances, 2019, 5, eaau6696.	4.7	70

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73	Controlling the Magnetic Properties of LaMnO 3 /SrTiO 3 Heterostructures by Stoichiometry and Electronic Reconstruction: Atomicâ€Scale Evidence. Advanced Materials, 2019, 31, 1901386.	11.1	27
74	Artificial Synapses Based on Multiterminal Memtransistors for Neuromorphic Application. Advanced Functional Materials, 2019, 29, 1901106.	7.8	192
75	Vacancyâ€Induced Synaptic Behavior in 2D WS₂ Nanosheetâ€“Based Memristor for Lowâ€Power Neuromorphic Computing. Small, 2019, 15, e1901423.	5.2	252
76	Flexible Transparent Organic Artificial Synapse Based on the Tungsten/Egg Albumen/Indium Tin Oxide/Polyethylene Terephthalate Memristor. ACS Applied Materials & Interfaces, 2019, 11, 18654-18661.	4.0	77
77	Tunable Magnetic Response in 2D Materials via Reversible Intercalation of Paramagnetic Ions. Advanced Electronic Materials, 2019, 5, 1900040.	2.6	28
78	Strain Effect on Oxygen Evolution Reaction Activity of Epitaxial NdNiO₃ Thin Films. ACS Applied Materials & Interfaces, 2019, 11, 12941-12947.	4.0	67
79	20.7% highly reproducible inverted planar perovskite solar cells with enhanced fill factor and eliminated hysteresis. Energy and Environmental Science, 2019, 12, 1622-1633.	15.6	193
80	Ag₂S Quantum Dots as an Infrared Excited Photocatalyst for Hydrogen Production. ACS Applied Energy Materials, 2019, 2, 2751-2759.	2.5	40
81	Giant Enhancements of Perpendicular Magnetic Anisotropy and Spinâ€Orbit Torque by a MoS₂ Layer. Advanced Materials, 2019, 31, e1900776.	11.1	65
82	Atomic-Scale Control of Magnetism at the Titanite-Manganite Interfaces. Nano Letters, 2019, 19, 3057-3065.	4.5	13
83	Temperatureâ€Dependent Spinâ€“Orbit Torques in Perpendicular Magnetic [Co/Ni] N /TbCo Composite Films. Advanced Electronic Materials, 2019, 5, 1900014.	2.6	7
84	Piezoelectric control of resistance switching in VO2/Pb(Zr0.52Ti0.48)O3 heterostructure. Applied Physics Letters, 2019, 114, .	1.5	5
85	Data Storage: Self-Assembled Networked PbS Distribution Quantum Dots for Resistive Switching and Artificial Synapse Performance Boost of Memristors (Adv. Mater. 7/2019). Advanced Materials, 2019, 31, 1970049.	11.1	2
86	Defect Engineering of Oxygenâ€Deficient Manganese Oxide to Achieve Highâ€Performing Aqueous Zinc Ion Battery. Advanced Energy Materials, 2019, 9, 1803815.	10.2	504
87	Selfâ€Assembled Networked PbS Distribution Quantum Dots for Resistive Switching and Artificial Synapse Performance Boost of Memristors. Advanced Materials, 2019, 31, e1805284.	11.1	221
88	Emergence of Topological Hall Effect in a SrRuO₃ Single Layer. Advanced Materials, 2019, 31, e1807008.	11.1	121
89	Spin-orbit torque in chemically disordered and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mn>1</mml:mn><mml:mn>1</mml:mn></mml:msub></mml:mrow></mml:ma -ordered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">u</mml:mi><mml:mrow><mml:mn>100</mml:mn><mml:mtext>â^'</mml:mtext><mml:mi>x</mml:mi></mml:m	0.9	17
90	Room temperature ferroelectricity of hybrid organicâ€“inorganic perovskites with mixed iodine and bromine. Journal of Materials Chemistry A, 2018, 6, 9665-9676.	5.2	26

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91	Probing the Ionic and Electrochemical Phenomena during Resistive Switching of NiO Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 8092-8101.	4.0	18
92	Memristors: Memristor with Agâ€Clusterâ€Doped TiO₂ Films as Artificial Synapse for Neuroinspired Computing (Adv. Funct. Mater. 1/2018). Advanced Functional Materials, 2018, 28, 1870002.	7.8	18
93	Control of Synaptic Plasticity Learning of Ferroelectric Tunnel Memristor by Nanoscale Interface Engineering. ACS Applied Materials & Interfaces, 2018, 10, 12862-12869.	4.0	109
94	Lattice-Mismatch-Induced Oscillatory Feature Size and Its Impact on the Physical Limitation of Grain Size. Physical Review Applied, 2018, 9, .	1.5	9
95	Flexible memristors as electronic synapses for neuro-inspired computation based on scotch tape-exfoliated mica substrates. Nano Research, 2018, 11, 1183-1192.	5.8	91
96	Memristor with Agâ€Clusterâ€Doped TiO₂ Films as Artificial Synapse for Neuroinspired Computing. Advanced Functional Materials, 2018, 28, 1705320.	7.8	318
97	Orthorhombic Ti₂O₃: A Polymorphâ€Dependent Narrowâ€Bandgap Ferromagnetic Oxide. Advanced Functional Materials, 2018, 28, 1705657.	7.8	36
98	Characteristic investigation of a flexible resistive memory based on a tunneling junction of Pd/BTO/LSMO on mica substrate. Applied Physics Letters, 2018, 113, .	1.5	16
99	Control of magnetic anisotropy by orbital hybridization with charge transfer in (La0.67Sr0.33MnO3)n/(SrTiO3)n superlattice. NPG Asia Materials, 2018, 10, 931-942.	3.8	15
100	Epitaxial Ferroelectric Hf_{0.5}Zr_{0.5}O₂ Thin Films and Their Implementations in Memristors for Brainâ€Inspired Computing. Advanced Functional Materials, 2018, 28, 1806037.	7.8	138
101	Molecular-Beam Epitaxy of Two-Dimensional In₂Se₃ and Its Giant Electroresistance Switching in Ferroresistive Memory Junction. Nano Letters, 2018, 18, 6340-6346.	4.5	163
102	Binary Controls on Interfacial Magnetism in Manganite Heterostructures. Advanced Functional Materials, 2018, 28, 1801766.	7.8	18
103	Tuning Bifunctional Oxygen Electrocatalysts by Changing the Aâ€Site Rareâ€Earth Element in Perovskite Nickelates. Advanced Functional Materials, 2018, 28, 1803712.	7.8	122
104	Effects of B and C doping on tunneling magnetoresistance in CoFe/MgO magnetic tunnel junctions. Physical Review B, 2018, 98, .	1.1	10
105	Graphene Oxide Quantum Dots Based Memristors with Progressive Conduction Tuning for Artificial Synaptic Learning. Advanced Functional Materials, 2018, 28, 1803728.	7.8	218
106	Interface Engineering and Emergent Phenomena in Oxide Heterostructures. Advanced Materials, 2018, 30, e1802439.	11.1	118
107	Tuning of current-induced effective magnetic field through Rashba effect engineering in hybrid multiferroic structures. NPG Asia Materials, 2018, 10, 740-748.	3.8	10
108	Observation of superconductivity in structure-selected Ti2O3 thin films. NPG Asia Materials, 2018, 10, 522-532.	3.8	43

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109	From Titanium Sesquioxide to Titanium Dioxide: Oxidation-Induced Structural, Phase, and Property Evolution. Chemistry of Materials, 2018, 30, 4383-4392.	3.2	42
110	Interfacial antiferromagnetic coupling between <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrRu</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub><mml:mi	0.9	4
111	Effect of Extrinsically Introduced Passive Interface Layer on the Performance of Ferroelectric Tunnel Junctions. ACS Applied Materials & Interfaces, 2017, 9, 5050-5055.	4.0	15
112	Multiâ€Nonvolatile State Resistive Switching Arising from Ferroelectricity and Oxygen Vacancy Migration. Advanced Materials, 2017, 29, 1606165.	11.1	84
113	Ultra-low magnetic damping of perovskite La0.7Sr0.3MnO3 thin films. Applied Physics Letters, 2017, 110, .	1.5	45
114	High-performance piezoelectric nanogenerators composed of formamidinium lead halide perovskite nanoparticles and poly(vinylidene fluoride). Nano Energy, 2017, 37, 126-135.	8.2	164
115	Solution-Processed Highly Superparamagnetic and Conductive PEDOT:PSS/Fe₃O₄ Nanocomposite Films with High Transparency and High Mechanical Flexibility. ACS Applied Materials & Interfaces, 2017, 9, 19001-19010.	4.0	55
116	Resistive switching behavior in copper doped zinc oxide (ZnO:Cu) thin films studied by using scanning probe microscopy techniques. Journal of Alloys and Compounds, 2017, 709, 535-541.	2.8	25
117	Highly improved performance in Zr_{0.5}Hf_{0.5}O₂ films inserted with graphene oxide quantum dots layer for resistive switching non-volatile memory. Journal of Materials Chemistry C, 2017, 5, 11046-11052.	2.7	66
118	Polarization rotation in copper doped zinc oxide (ZnO:Cu) thin films studied by Piezoresponse Force Microscopy (PFM) techniques. Acta Materialia, 2017, 123, 394-403.	3.8	20
119	Spin Transport and Magnetism in Low-Dimensional Materials. Advances in Condensed Matter Physics, 2017, 2017, 1-2.	0.4	0
120	Achieving giant tunneling electroresistance and magnetoresistance by <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:m barrier and Heusler alloy electrode. Physical Review Materials, 2017, 1, .	3.1	3
121	Control of Microstructure of FEPT-X (001) Films for HAMR Through Interface Modification and Doping. , 2016, , .		0
122	Ferroelectric HfO₂-based materials for next-generation ferroelectric memories. Journal of Advanced Dielectrics, 2016, 06, 1630003.	1.5	163
123	Engineered Molecular Chain Ordering in Singleâ€Walled Carbon Nanotubes/Polyaniline Composite Films for Highâ€Performance Organic Thermoelectric Materials. Chemistry - an Asian Journal, 2016, 11, 1804-1810.	1.7	90
124	Enhanced Thermoelectric Properties of Polyaniline Nanofilms Induced by Selfâ€Assembled Supramolecules. Chemistry - an Asian Journal, 2016, 11, 1955-1962.	1.7	25
125	Effects of strain relaxation in Pr0.67Sr0.33MnO3 films probed by polarization dependent X-ray absorption near edge structure. Scientific Reports, 2016, 6, 19886.	1.6	12
126	Ferroelectricity and ferroelectric resistive switching in sputtered Hf0.5Zr0.5O2 thin films. Applied Physics Letters, 2016, 108, .	1.5	57

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127	Ferroelectricity emerging in strained (111)-textured ZrO2 thin films. Applied Physics Letters, 2016, 108, .	1.5	44
128	Tunneling electroresistance effect in ultrathin BiFeO3-based ferroelectric tunneling junctions. Applied Physics Letters, 2016, 109, .	1.5	9
129	Domain configurations in Co/Pd and L1₀-FePt nanowire arrays with perpendicular magnetic anisotropy. Nanoscale, 2016, 8, 5358-5367.	2.8	9
130	Enhancing the planar heterojunction perovskite solar cell performance through tuning the precursor ratio. Journal of Materials Chemistry A, 2016, 4, 7943-7949.	5.2	86
131	Elucidating the charge carrier transport and extraction in planar heterojunction perovskite solar cells by Kelvin probe force microscopy. Journal of Materials Chemistry A, 2016, 4, 17464-17472.	5.2	43
132	Interface studies of the planar heterojunction perovskite solar cells. Solar Energy Materials and Solar Cells, 2016, 157, 783-790.	3.0	42
133	Flexible Piezoelectric Nanocomposite Generators Based on Formamidinium Lead Halide Perovskite Nanoparticles. Advanced Functional Materials, 2016, 26, 7708-7716.	7.8	163
134	Giant tunneling electroresistance induced by ferroelectrically switchable two-dimensional electron gas at nonpolar<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></m Physical Review B, 2016, 94, .	1.1	15
135	Tailoring Selfâ€Polarization of BaTiO₃ Thin Films by Interface Engineering and Flexoelectric Effect. Advanced Materials Interfaces, 2016, 3, 1600737.	1.9	37
136	Interfacial Coupling-Induced Ferromagnetic Insulator Phase in Manganite Film. Nano Letters, 2016, 16, 4174-4180.	4.5	24
137	Oersted Field and Spin Current Effects on Magnetic Domains in [Co/Pd]₁₅Nanowires. IEEE Transactions on Magnetics, 2016, 52, 1-6.	1.2	4
138	Gate Tunable Inâ€and Outâ€ofâ€Plane Spinâ€“Orbit Coupling and Spinâ€Splitting Anisotropy at LaAlO₃/SrTiO₃ (110) Interface. Advanced Electronic Materials, 2015, 1, 1500114.	2.6	31
139	Functional ferroelectric tunnel junctions on silicon. Scientific Reports, 2015, 5, 12576.	1.6	51
140	Strain Engineering of Octahedral Rotations and Physical Properties of SrRuO3 Films. Scientific Reports, 2015, 5, 10245.	1.6	51
141	Correlation of the resistive switching and polarization switching in zinc oxide thin films using scanning probe microscopy techniques. Journal of Materials Research, 2015, 30, 3431-3442.	1.2	8
142	A Facile Chemical Solutionâ€Based Method for Epitaxial Growth of Thick Ferrite Films. Advanced Electronic Materials, 2015, 1, 1500102.	2.6	2
143	Enhanced photovoltaic effects and switchable conduction behavior in BiFe0.6Sc0.4O3 thin films. Acta Materialia, 2015, 88, 83-90.	3.8	37
144	Stable Ferroelectric Perovskite Structure with Giant Axial Ratio and Polarization in Epitaxial BiFe_{0.6}Ga_{0.4}O₃ Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 2648-2653.	4.0	38

#	Article	IF	Citations
145	Ferroelectric polarization relaxation in Au/Cu2O/ZnO/BiFeO3/Pt heterostructure. Applied Physics Letters, 2015, 106, .	1.5	8
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148	Ultrathin BaTiO₃-Based Ferroelectric Tunnel Junctions through Interface Engineering. Nano Letters, 2015, 15, 2568-2573.	4.5	81
149	Ferroelectricity of CH₃NH₃PbI₃ Perovskite. Journal of Physical Chemistry Letters, 2015, 6, 1155-1161.	2.1	295
150	Tuning of multifunctional Cu-doped ZnO films and nanowires for enhanced piezo/ferroelectric-like and gas/photoresponse properties. Nanoscale, 2014, 6, 1680-1690.	2.8	32
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