

# Juanxiu Xiao

## List of Publications by Year in descending order

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papers

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9300  
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#	ARTICLE	IF	CITATIONS
1	Defect Engineering of Oxygen-Deficient Manganese Oxide to Achieve High-Performing Aqueous Zinc Ion Battery. <i>Advanced Energy Materials</i> , 2019, 9, 1803815.	10.2	504
2	Memristor with Ag-Cluster-Doped TiO <sub>2</sub> Films as Artificial Synapse for Neuroinspired Computing. <i>Advanced Functional Materials</i> , 2018, 28, 1705320.	7.8	318
3	Ferroelectricity of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1155-1161.	2.1	295
4	Vacancy-Induced Synaptic Behavior in 2D WS <sub>2</sub> Nanosheet-Based Memristor for Low-Power Neuromorphic Computing. <i>Small</i> , 2019, 15, e1901423.	5.2	252
5	Self-Assembled Networked PbS Distribution Quantum Dots for Resistive Switching and Artificial Synapse Performance Boost of Memristors. <i>Advanced Materials</i> , 2019, 31, e1805284.	11.1	221
6	Graphene Oxide Quantum Dots Based Memristors with Progressive Conduction Tuning for Artificial Synaptic Learning. <i>Advanced Functional Materials</i> , 2018, 28, 1803728.	7.8	218
7	20.7% highly reproducible inverted planar perovskite solar cells with enhanced fill factor and eliminated hysteresis. <i>Energy and Environmental Science</i> , 2019, 12, 1622-1633.	15.6	193
8	Artificial Synapses Based on Multiterminal Memtransistors for Neuromorphic Application. <i>Advanced Functional Materials</i> , 2019, 29, 1901106.	7.8	192
9	The Future of Memristors: Materials Engineering and Neural Networks. <i>Advanced Functional Materials</i> , 2021, 31, 2006773.	7.8	187
10	High-performance piezoelectric nanogenerators composed of formamidinium lead halide perovskite nanoparticles and poly(vinylidene fluoride). <i>Nano Energy</i> , 2017, 37, 126-135.	8.2	164
11	Ferroelectric HfO <sub>2</sub> -based materials for next-generation ferroelectric memories. <i>Journal of Advanced Dielectrics</i> , 2016, 06, 1630003.	1.5	163
12	Flexible Piezoelectric Nanocomposite Generators Based on Formamidinium Lead Halide Perovskite Nanoparticles. <i>Advanced Functional Materials</i> , 2016, 26, 7708-7716.	7.8	163
13	Molecular-Beam Epitaxy of Two-Dimensional In <sub>2</sub> Se <sub>3</sub> and Its Giant Electroresistance Switching in Ferroresistive Memory Junction. <i>Nano Letters</i> , 2018, 18, 6340-6346.	4.5	163
14	Symmetry-dependent field-free switching of perpendicular magnetization. <i>Nature Nanotechnology</i> , 2021, 16, 277-282.	15.6	145
15	Current-induced magnetization switching in all-oxide heterostructures. <i>Nature Nanotechnology</i> , 2019, 14, 939-944.	15.6	139
16	Epitaxial Ferroelectric Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Thin Films and Their Implementations in Memristors for Brain-Inspired Computing. <i>Advanced Functional Materials</i> , 2018, 28, 1806037.	7.8	138
17	Tuning Bifunctional Oxygen Electrocatalysts by Changing the A-Site Rare-Earth Element in Perovskite Nickelates. <i>Advanced Functional Materials</i> , 2018, 28, 1803712.	7.8	122
18	Emergence of Topological Hall Effect in a SrRuO <sub>3</sub> Single Layer. <i>Advanced Materials</i> , 2019, 31, e1807008.	11.1	121

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19	Interface Engineering and Emergent Phenomena in Oxide Heterostructures. <i>Advanced Materials</i> , 2018, 30, e1802439.	11.1	118
20	Control of Synaptic Plasticity Learning of Ferroelectric Tunnel Memristor by Nanoscale Interface Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 12862-12869.	4.0	109
21	Current status and prospects of memristors based on novel 2D materials. <i>Materials Horizons</i> , 2020, 7, 1495-1518.	6.4	101
22	In-situ synthesis of free-standing FeNi-oxhydroxide nanosheets as a highly efficient electrocatalyst for water oxidation. <i>Chemical Engineering Journal</i> , 2020, 395, 125180.	6.6	100
23	Continuously controllable photoconductance in freestanding BiFeO <sub>3</sub> by the macroscopic flexoelectric effect. <i>Nature Communications</i> , 2020, 11, 2571.	5.8	93
24	Electrochemical Reduction of Carbon Dioxide and Iron Oxide in Molten Salts to Fe/Fe <sub>3</sub> C Modified Carbon for Electrocatalytic Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2120-2124.	7.2	92
25	Artificial Visual Perception Nervous System Based on Low-Dimensional Material Photoelectric Memristors. <i>ACS Nano</i> , 2021, 15, 17319-17326.	7.3	92
26	Flexible memristors as electronic synapses for neuro-inspired computation based on scotch tape-exfoliated mica substrates. <i>Nano Research</i> , 2018, 11, 1183-1192.	5.8	91
27	Ferroic tunnel junctions and their application in neuromorphic networks. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	91
28	Engineered Molecular Chain Ordering in Single-Walled Carbon Nanotubes/Polyaniline Composite Films for High-Performance Organic Thermoelectric Materials. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1804-1810.	1.7	90
29	Enhancing the planar heterojunction perovskite solar cell performance through tuning the precursor ratio. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7943-7949.	5.2	86
30	Multi-Nonvolatile State Resistive Switching Arising from Ferroelectricity and Oxygen Vacancy Migration. <i>Advanced Materials</i> , 2017, 29, 1606165.	11.1	84
31	Ultrathin BaTiO <sub>3</sub> -Based Ferroelectric Tunnel Junctions through Interface Engineering. <i>Nano Letters</i> , 2015, 15, 2568-2573.	4.5	81
32	Flexible Transparent Organic Artificial Synapse Based on the Tungsten/Egg Albumen/Indium Tin Oxide/Polyethylene Terephthalate Memristor. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 18654-18661.	4.0	77
33	Large spin-orbit torque efficiency enhanced by magnetic structure of collinear antiferromagnet IrMn. <i>Science Advances</i> , 2019, 5, eaau6696.	4.7	70
34	A van der Waals Synaptic Transistor Based on Ferroelectric Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> and 2D Tungsten Disulfide. <i>Advanced Electronic Materials</i> , 2020, 6, 2000057.	2.6	68
35	Strain Effect on Oxygen Evolution Reaction Activity of Epitaxial NdNiO <sub>3</sub> Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 12941-12947.	4.0	67
36	A Pure 2H-MoS <sub>2</sub> Nanosheet-Based Memristor with Low Power Consumption and Linear Multilevel Storage for Artificial Synapse Emulator. <i>Advanced Electronic Materials</i> , 2020, 6, 1901342.	2.6	67

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37	Highly improved performance in Zr <sub>0.5</sub> Hf <sub>0.5</sub> O <sub>2</sub> 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
38	Electrical switching of perpendicular magnetization in a single ferromagnetic layer. Physical Review B, 2020, 101, .	1.1	66
39	Giant Enhancements of Perpendicular Magnetic Anisotropy and Spin-Orbit Torque by a MoS <sub>2</sub> Layer. Advanced Materials, 2019, 31, e1900776.	11.1	65
40	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
41	Ferroelectricity and ferroelectric resistive switching in sputtered Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> thin films. Applied Physics Letters, 2016, 108, .	1.5	57
42	Designing carbon conductive filament memristor devices for memory and electronic synapse applications. Materials Horizons, 2020, 7, 1106-1114.	6.4	57
43	An Electronic Synapse Based on 2D Ferroelectric CuInP <sub>2</sub> S <sub>6</sub> . Advanced Electronic Materials, 2020, 6, 2000760.	2.6	57
44	Solution-Processed Highly Superparamagnetic and Conductive PEDOT:PSS/Fe <sub>3</sub> O <sub>4</sub> Nanocomposite Films with High Transparency and High Mechanical Flexibility. ACS Applied Materials & Interfaces, 2017, 9, 19001-19010.	4.0	55
45	Evolution from Lead-Based to Lead-Free Piezoelectrics: Engineering of Lattices, Domains, Boundaries, and Defects Leading to Giant Response. Advanced Materials, 2022, 34, e2106845.	11.1	54
46	Functional ferroelectric tunnel junctions on silicon. Scientific Reports, 2015, 5, 12576.	1.6	51
47	Strain Engineering of Octahedral Rotations and Physical Properties of SrRuO <sub>3</sub> Films. Scientific Reports, 2015, 5, 10245.	1.6	51
48	Interface-based tuning of Rashba spin-orbit interaction in asymmetric oxide heterostructures with 3d electrons. Nature Communications, 2019, 10, 3052.	5.8	51
49	Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> -based ferroelectric memristor with multilevel storage potential and artificial synaptic plasticity. Science China Materials, 2021, 64, 727-738.	3.5	51
50	Free Field Electric Switching of Perpendicularly Magnetized Thin Film by Spin Current Gradient. ACS Applied Materials & Interfaces, 2019, 11, 30446-30452.	4.0	47
51	Ultra-low magnetic damping of perovskite La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films. Applied Physics Letters, 2017, 110, .	1.5	45
52	Ferroelectricity emerging in strained (111)-textured ZrO <sub>2</sub> thin films. Applied Physics Letters, 2016, 108, .	1.5	44
53	Molten Salt Electrochemical Modulation of Iron-Carbon-Nitrogen for Lithium-Sulfur Batteries. Angewandte Chemie - International Edition, 2021, 60, 24905-24909.	7.2	44
54	A Multifunctional and Efficient Artificial Visual Perception Nervous System with Sb <sub>2</sub> Se <sub>3</sub> /CdS@Core/Shell (SC) Nanorod Arrays Optoelectronic Memristor. Advanced Functional Materials, 2022, 32, .	7.8	44

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55	Elucidating the charge carrier transport and extraction in planar heterojunction perovskite solar cells by Kelvin probe force microscopy. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17464-17472.	5.2	43
56	Observation of superconductivity in structure-selected Ti <sub>2</sub> O <sub>3</sub> thin films. <i>NPG Asia Materials</i> , 2018, 10, 522-532.	3.8	43
57	Interface studies of the planar heterojunction perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 783-790.	3.0	42
58	From Titanium Sesquioxide to Titanium Dioxide: Oxidation-Induced Structural, Phase, and Property Evolution. <i>Chemistry of Materials</i> , 2018, 30, 4383-4392.	3.2	42
59	Electronic-reconstruction-enhanced hydrogen evolution catalysis in oxide polymorphs. <i>Nature Communications</i> , 2019, 10, 3149.	5.8	42
60	Spin-Orbit Torque-Induced Domain Nucleation for Neuromorphic Computing. <i>Advanced Materials</i> , 2021, 33, e2103672.	11.1	41
61	Ag <sub>2</sub> S Quantum Dots as an Infrared Excited Photocatalyst for Hydrogen Production. <i>ACS Applied Energy Materials</i> , 2019, 2, 2751-2759.	2.5	40
62	Stable Ferroelectric Perovskite Structure with Giant Axial Ratio and Polarization in Epitaxial BiFe <sub>0.6</sub> Ga <sub>0.4</sub> O <sub>3</sub> Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 2648-2653.	4.0	38
63	Enhanced photovoltaic effects and switchable conduction behavior in BiFe <sub>0.6</sub> Sc <sub>0.4</sub> O <sub>3</sub> thin films. <i>Acta Materialia</i> , 2015, 88, 83-90.	3.8	37
64	Tailoring Self-Polarization of BaTiO <sub>3</sub> Thin Films by Interface Engineering and Flexoelectric Effect. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600737.	1.9	37
65	Flexible artificial synapse based on single-crystalline BiFeO <sub>3</sub> thin film. <i>Nano Research</i> , 2022, 15, 2682-2688.	5.8	37
66	Multifunctional MoTe <sub>2</sub> Fe-FET Enabled by Ferroelectric Polarization-Assisted Charge Trapping. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	37
67	Orthorhombic Ti <sub>2</sub> O <sub>3</sub> : A Polymorph-Dependent Narrow-Bandgap Ferromagnetic Oxide. <i>Advanced Functional Materials</i> , 2018, 28, 1705657.	7.8	36
68	Magnetic asymmetry induced anomalous spin-orbit torque in IrMn. <i>Physical Review B</i> , 2020, 101, .	1.1	36
69	Resistive Switching and Polarization Reversal of Hydrothermal-Method-Grown Undoped Zinc Oxide Nanorods by Using Scanning Probe Microscopy Techniques. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 11412-11422.	4.0	35
70	Overcoming the Limits of the Interfacial Dzyaloshinskii-Moriya Interaction by Antiferromagnetic Order in Multiferroic Heterostructures. <i>Advanced Materials</i> , 2020, 32, e1904415.	11.1	34
71	Prospect of Spintronics in Neuromorphic Computing. <i>Advanced Electronic Materials</i> , 2021, 7, 2100465.	2.6	33
72	Tuning of multifunctional Cu-doped ZnO films and nanowires for enhanced piezo/ferroelectric-like and gas/photoresponse properties. <i>Nanoscale</i> , 2014, 6, 1680-1690.	2.8	32

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73	Gate Tunable In-plane and Out-of-plane Spin-Orbit Coupling and Spin-Splitting Anisotropy at LaAlO <sub>3</sub> /SrTiO <sub>3</sub> (110) Interface. <i>Advanced Electronic Materials</i> , 2015, 1, 1500114.	2.6	31
74	Modulation of Spin-Orbit Torque from SrRuO <sub>3</sub> by Epitaxial Strain-Induced Octahedral Rotation. <i>Advanced Materials</i> , 2021, 33, e2007114.	11.1	29
75	Tunable Magnetic Response in 2D Materials via Reversible Intercalation of Paramagnetic Ions. <i>Advanced Electronic Materials</i> , 2019, 5, 1900040.	2.6	28
76	Controlling the Magnetic Properties of LaMnO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures by Stoichiometry and Electronic Reconstruction: Atomic-Scale Evidence. <i>Advanced Materials</i> , 2019, 31, 1901386.	11.1	27
77	Perpendicular Magnetic Anisotropy and Dzyaloshinskii-Moriya Interaction at an Oxide/Ferromagnetic Metal Interface. <i>Physical Review Letters</i> , 2020, 124, 217202.	2.9	27
78	Room temperature ferroelectricity of hybrid organic-inorganic perovskites with mixed iodine and bromine. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9665-9676.	5.2	26
79	0.7BiFeO <sub>3</sub> -0.3BaTiO <sub>3</sub> -Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> composites with simultaneously improved electrical and magnetic properties. <i>Journal of Applied Physics</i> , 2012, 111, 024104.	1.1	25
80	Enhanced Thermoelectric Properties of Polyaniline Nanofilms Induced by Self-Assembled Supramolecules. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1955-1962.	1.7	25
81	Resistive switching behavior in copper doped zinc oxide (ZnO:Cu) thin films studied by using scanning probe microscopy techniques. <i>Journal of Alloys and Compounds</i> , 2017, 709, 535-541.	2.8	25
82	Memristors based on multilayer graphene electrodes for implementing a low-power neuromorphic electronic synapse. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4926-4933.	2.7	25
83	Interface-engineered electron and hole tunneling. <i>Science Advances</i> , 2021, 7, .	4.7	25
84	Interfacial Coupling-Induced Ferromagnetic Insulator Phase in Manganite Film. <i>Nano Letters</i> , 2016, 16, 4174-4180.	4.5	24
85	Thickness-dependent polarization-induced intrinsic magnetoelectric effects in $L_aO_3/SrTiO_3$ heterostructures. <i>Journal of Applied Physics</i> , 2017, 121, 024104.	1.1	24
86	Electric Field Control of the Magnetic Weyl Fermion in an Epitaxial SrRuO <sub>3</sub> (111) Thin Film. <i>Advanced Materials</i> , 2021, 33, e2101316.	11.1	24
87	Oxygen vacancy-induced topological nanodomains in ultrathin ferroelectric films. <i>Npj Quantum Materials</i> , 2021, 6, .	1.8	23
88	Field-Free Switching of Perpendicular Magnetization Induced by Longitudinal Spin-Orbit-Torque Gradient. <i>Physical Review Applied</i> , 2022, 17, .	1.5	22
89	An Overview of Ferroelectric Hafnia and Epitaxial Growth. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100025.	1.2	21
90	Photo-enhanced Seebeck effect of a highly conductive thermoelectric material. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16725-16732.	5.2	21

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91	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
92	A Boolean OR gate implemented with an optoelectronic switching memristor. Applied Physics Letters, 2019, 115, .	1.5	20
93	Probing the Ionic and Electrochemical Phenomena during Resistive Switching of NiO Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 8092-8101.	4.0	18
94	Memristors: Memristor with Ag <sup>+</sup> Cluster <sup>+</sup> Doped TiO <sub>2</sub> Films as Artificial Synapse for Neuroinspired Computing (Adv. Funct. Mater. 1/2018). Advanced Functional Materials, 2018, 28, 1870002.	7.8	18
95	Binary Controls on Interfacial Magnetism in Manganite Heterostructures. Advanced Functional Materials, 2018, 28, 1801766.	7.8	18
96	Enhanced Magnetic Anisotropy and Orbital Symmetry Breaking in Manganite Heterostructures. Advanced Functional Materials, 2020, 30, 1909536.	7.8	17
97	Spin-orbit torque in chemically disordered and L <sub>1</sub> -ordered $\text{Cu}_2\text{MnGe}$ thin films. Physical Review B, 2011, 84, .	0.9	17
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	Directional short range order in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ magnetic thin films. Physical Review B, 2011, 84, .	1.5	15
100	Giant tunneling electroresistance induced by ferroelectrically switchable two-dimensional electron gas at nonpolar $\text{BaTiO}_3$ surface. Physical Review B, 2016, 94, .	1.1	15
101	Effect of Extrinsic Introduced Passive Interface Layer on the Performance of Ferroelectric Tunnel Junctions. ACS Applied Materials & Interfaces, 2017, 9, 5050-5055.	4.0	15
102	Control of magnetic anisotropy by orbital hybridization with charge transfer in $(\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3)_n/(\text{SrTiO}_3)_n$ superlattice. NPG Asia Materials, 2018, 10, 931-942.	3.8	15
103	A Flexible Transient Biomemristor Based on Hybrid Structure $\text{HfO}_2/\text{BSA}/\text{Au}$ Double Layers. Advanced Materials Technologies, 2020, 5, 2000191.	3.0	15
104	Alloy electrode engineering in memristors for emulating the biological synapse. Nanoscale, 2022, 14, 1318-1326.	2.8	15
105	Electrochemical Reduction of Carbon Dioxide and Iron Oxide in Molten Salts to $\text{Fe}/\text{Fe}_3\text{C}$ Modified Carbon for Electrocatalytic Oxygen Evolution. Angewandte Chemie, 2021, 133, 2148-2152.	1.6	14
106	Atomic-Scale Control of Magnetism at the Titanite-Manganite Interfaces. Nano Letters, 2019, 19, 3057-3065.	4.5	13
107	Spin-Orbit Torque Switching of a High-Quality Perpendicularly Magnetized Ferrimagnetic Heusler $\text{Mn}_3\text{Ge}$ Film. ACS Applied Materials & Interfaces, 2021, 13, 18294-18300.	4.0	13
108	Effects of strain relaxation in $\text{Pr}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ films probed by polarization dependent X-ray absorption near edge structure. Scientific Reports, 2016, 6, 19886.	1.6	12

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109	Room-temperature spin-orbit torque switching in a manganite-based heterostructure. <i>Physical Review B</i> , 2022, 105, .	1.1	12
110	Orbital reconstruction mediated giant vertical magnetization shift and insulator-to-metal transition in superlattices based on antiferromagnetic manganites. <i>Physical Review B</i> , 2020, 101, .	1.1	11
111	Controlling Resistance Switching Performances of $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$ Films by Substrate Stress and Potential in Neuromorphic Computing. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	11
112	Effects of B and C doping on tunneling magnetoresistance in CoFe/MgO magnetic tunnel junctions. <i>Physical Review B</i> , 2018, 98, .	1.1	10
113	Tuning of current-induced effective magnetic field through Rashba effect engineering in hybrid multiferroic structures. <i>NPG Asia Materials</i> , 2018, 10, 740-748.	3.8	10
114	Magnetoelectric Coupling Induced Orbital Reconstruction and Ferromagnetic Insulating State in $\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3/\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 35588-35597.		10
115	Ferroelectric Self-Polarization Controlled Magnetic Stratification and Magnetic Coupling in Ultrathin $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 30137-30145.	4.0	10
116	Tunneling electroresistance effect in ultrathin BiFeO <sub>3</sub> -based ferroelectric tunneling junctions. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	9
117	Domain configurations in Co/Pd and $\text{L1}_0$ -FePt nanowire arrays with perpendicular magnetic anisotropy. <i>Nanoscale</i> , 2016, 8, 5358-5367.	2.8	9
118	Lattice-Mismatch-Induced Oscillatory Feature Size and Its Impact on the Physical Limitation of Grain Size. <i>Physical Review Applied</i> , 2018, 9, .	1.5	9
119	Formation of two-dimensional small polarons at the conducting $\text{LaAlO}_3/\text{SrTiO}_3$ interface. <i>Physical Review B</i> , 2019, 100, .		9
120	Blow spinning of pre- $\epsilon$ -acid-activated polyamidoxime nanofibers for efficient uranium adsorption from seawater. <i>Materials Today Energy</i> , 2021, 21, 100735.	2.5	9
121	Memristor based on $\text{In}_2\text{Se}_3$ for emulating biological synaptic plasticity and learning behavior. <i>Science China Materials</i> , 0, , 1.	3.5	9
122	Correlation of the resistive switching and polarization switching in zinc oxide thin films using scanning probe microscopy techniques. <i>Journal of Materials Research</i> , 2015, 30, 3431-3442.	1.2	8
123	Ferroelectric polarization relaxation in Au/Cu <sub>2</sub> O/ZnO/BiFeO <sub>3</sub> /Pt heterostructure. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	8
124	Role of Interfacial Orbital Hybridization in Spin-Orbit-Torque Generation in Pt -Based Heterostructures. <i>Physical Review Applied</i> , 2020, 14, .	1.5	8
125	Tunable Rashba spin-orbit coupling and its interplay with multiorbital effect and magnetic ordering at oxide interfaces. <i>Physical Review B</i> , 2021, 104, .	1.1	8
126	Electric-field-induced strain effects on the magnetization of a $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ film. <i>Physical Review B</i> , 2021, 103, .	1.1	7



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127	Temperature-Dependent Spin-Orbit Torques in Perpendicular Magnetic [Co/Ni] N /TbCo Composite Films. <i>Advanced Electronic Materials</i> , 2019, 5, 1900014.	2.6	7
128	Memristors Based on the Hybrid Structure of Oxide and Boron Nitride Nanosheets Combining Memristive and Neuromorphic Functionalities. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900539.	1.2	7
129	A molten-salt electrochemical biorefinery for carbon-neutral utilization of biomass. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27442-27447.	5.2	6
130	Solid-Ionic Memory in a van der Waals Heterostructure. <i>ACS Nano</i> , 2022, 16, 221-231.	7.3	6
131	Piezoelectric control of resistance switching in VO <sub>2</sub> /Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> heterostructure. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	5
132	Memristors mimicking the regulation of synaptic plasticity and the refractory period in the phenomenological model. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5183-5190.	2.7	5
133	Thermal Effect in Current-Induced Magnetization Switching and Out-of-Plane Effective Field Measurements. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2483-2489.	2.0	5
134	Interfacial control of domain structure and magnetic anisotropy in La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> manganite heterostructures. <i>Physical Review B</i> , 2021, 104, .	1.1	5
135	The structural, magnetic, and optical properties of ZnO (0001) wafers implanted with Co ions. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 1819-1822.	2.0	4
136	Oersted Field and Spin Current Effects on Magnetic Domains in [Co/Pd] <sub>15</sub> Nanowires. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-6.	1.2	4
137	Tuning Irreversible Magnetoresistance in Pr <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> Film via Octahedral Rotation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 43222-43230.	4.0	4
138	Room temperature ferromagnetism in D neutron irradiated rutile TiO <sub>2</sub> single crystals. <i>RSC Advances</i> , 2020, 10, 18687-18693.	1.7	4
139	Molten Salt Electrochemical Modulation of Iron-Carbon-Nitrogen for Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 0, , .	1.6	4
140	Interfacial antiferromagnetic coupling between $\text{SrRuO}_3$ and $\text{LaMnO}_3$ thin films. <i>Physical Review Applied</i> , 2020, 13, 014001.	0.9	4
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