

Ming Liu

List of Publications by Year in descending order

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208
papers

6,792
citations

61945

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222
times ranked

7519
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#	ARTICLE	IF	CITATIONS
1	Vector imaging of electric field-induced reversible magnetization reversal in exchange-biased multiferroic heterostructures. <i>Science China Materials</i> , 2022, 65, 186-192.	3.5	1
2	Improving solar control of magnetism in ternary organic photovoltaic system with enhanced photo-induced electrons doping. <i>Nano Research</i> , 2022, 15, 2626-2633.	5.8	3
3	Magnetic Field Sensor Based on Magnetic Torque Effect and Surface Acoustic Wave With Enhanced Sensitivity. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-6.	1.2	2
4	Ferromagnetic Resonance Vector Magnetic Sensor with High Sensitivity and Ultrawide Working Range. <i>Advanced Materials Technologies</i> , 2022, 7, 2100919.	3.0	4
5	2D Type PVDF-Based Composites Interlayered by Epitaxial (111)-Oriented BTO Films for High Energy Storage Density. <i>Advanced Functional Materials</i> , 2022, 32, 2108496.	7.8	33
6	Self-Assembled Epitaxial Ferroelectric Oxide Nanospring with Super-Scalability. <i>Advanced Materials</i> , 2022, 34, e2108419.	11.1	11
7	Sunlight Control of Ferromagnetic Damping in Photovoltaic/Ferromagnetic Heterostructures. <i>Advanced Functional Materials</i> , 2022, 32, 2111652.	7.8	8
8	STICKER-IM: A 65 nm Computing-in-Memory NN Processor Using Block-Wise Sparsity Optimization and Inter/Intra-Macro Data Reuse. <i>IEEE Journal of Solid-State Circuits</i> , 2022, 57, 2560-2573.	3.5	17
9	Linearly shifting ferromagnetic resonance response of La _{0.7} Sr _{0.3} MnO ₃ thin film for body temperature sensors. <i>Frontiers of Materials Science</i> , 2022, 16, 220589.	1.1	1
10	Mechanical Energy Harvesting and Specific Potential Distribution of a Flexible Piezoelectric Nanogenerator Based on 2-D BaTiO ₃ -Oriented Polycrystals. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 3276-3287.	3.2	24
11	Tip-Induced In-Plane Ferroelectric Superstructure in Zigzag-Wrinkled BaTiO ₃ Thin Films. <i>Nano Letters</i> , 2022, 22, 2859-2866.	4.5	11
12	Giant tunable spin Hall angle in sputtered Bi ₂ Se ₃ controlled by an electric field. <i>Nature Communications</i> , 2022, 13, 1650.	5.8	33
13	2D Type PVDF-Based Composites Interlayered by Epitaxial (111)-Oriented BTO Films for High Energy Storage Density (<i>Adv. Funct. Mater.</i> 10/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	0
14	Tunable Friction Properties of Periodic Wrinkled BaTiO ₃ Membranes. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	5
15	Strain-Induced Magnetoelectric Coupling in Fe ₃ O ₄ /BaTiO ₃ Nanopillar Composites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13925-13931.	4.0	10
16	Voltage Manipulation of Synthetic Antiferromagnetism in CoFeB/Ta/CoFeB Heterostructure for Spintronic Application. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	3
17	Self-Assembled Epitaxial Ferroelectric Oxide Nanospring with Super-Scalability (<i>Adv. Mater.</i> 13/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	0
18	Novel Vertical Channel-All-Around (CAA) In-Ga-Zn-O FET for 2T0C-DRAM With High Density Beyond 4F ² by Monolithic Stacking. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 2196-2202.	1.6	30

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19	Enhanced Energy Density at a Low Electric Field in PVDF-Based Heterojunctions Sandwiched with High Ion-Polarized BTO Films. ACS Applied Materials & Interfaces, 2022, 14, 17849-17857.	4.0	7
20	Stabilizing Remanent Polarization during Cycling in HZO-Based Ferroelectric Device by Prolonging Wake-up Period. Advanced Electronic Materials, 2022, 8, .	2.6	7
21	Flexible Multiferroic Heterostructure Based on Freestanding Single-Crystalline BaTiO ₃ Membranes for Spintronic Devices. Advanced Electronic Materials, 2022, 8, .	2.6	7
22	A 1596-GB/s 48-Gb Stacked Embedded DRAM 384-Core SoC With Hybrid Bonding Integration. IEEE Solid-State Circuits Letters, 2022, 5, 110-113.	1.3	3
23	Giant strain responses and relaxor characteristics in lead-free (Bi _{0.5} Na _{0.5})TiO ₃ -BaZrO ₃ ferroelectric thin films. Journal of Materials Chemistry C, 2022, 10, 7449-7459.	2.7	8
24	Suppressing Magnetic Damping Related to Two-Magnon Scattering in Ultrathin NiFe Films by Interface Engineering. Journal of Physical Chemistry C, 2022, 126, 7748-7754.	1.5	3
25	Implementing in-situ self-organizing maps with memristor crossbar arrays for data mining and optimization. Nature Communications, 2022, 13, 2289.	5.8	25
26	A Magnetic Field Imaging System Based on TMR Sensors for Banknote Recognition. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	1
27	Significantly reduced secondary electron emission from silver/carbon composite films for microwave devices. Journal of Applied Physics, 2022, 131, .	1.1	1
28	Strain Modulation of Perpendicular Magnetic Anisotropy in Wrinkle-Patterned (Co/Pt) ₅ /BaTiO ₃ Magnetoelectric Heterostructures. ACS Nano, 2022, 16, 11291-11299.	7.3	6
29	Magnetic Sensor Based on Giant Magneto-Impedance in Commercial Inductors. IEEE Transactions on Industrial Electronics, 2021, 68, 7577-7583.	5.2	7
30	Highly Sensitive Magneto-Mechano-Electric Magnetic Field Sensor Based on Torque Effect. IEEE Sensors Journal, 2021, 21, 1409-1416.	2.4	4
31	High-Density 3-D Stackable Crossbar 2D2R nvTCAM With Low-Power Intelligent Search for Fast Packet Forwarding in 5G Applications. IEEE Journal of Solid-State Circuits, 2021, 56, 988-1000.	3.5	12
32	Thermally activated giant piezoelectricity and enhanced interface elastic strain-mediated magnetoelectric coupling. Journal of the American Ceramic Society, 2021, 104, 896-902.	1.9	1
33	Ultraflexible and Malleable Fe/BaTiO ₃ Multiferroic Heterostructures for Functional Devices. Advanced Functional Materials, 2021, 31, 2009376.	7.8	30
34	Implementation of Image Compression by Using High-Precision In-Memory Computing Scheme Based on NOR Flash Memory. IEEE Electron Device Letters, 2021, 42, 1603-1606.	2.2	6
35	Quantitative Analysis on Resistance Fluctuation of Resistive Random Access Memory by Low Frequency Noise Measurement. IEEE Electron Device Letters, 2021, 42, 312-314.	2.2	4
36	Hybrid memristor-CMOS neurons for in-situ learning in fully hardware memristive spiking neural networks. Science Bulletin, 2021, 66, 1624-1633.	4.3	52

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37	Multiferroic Heterostructures: Ultraflexible and Malleable Fe/BaTiO ₃ Multiferroic Heterostructures for Functional Devices (Adv. Funct. Mater. 16/2021). Advanced Functional Materials, 2021, 31, 2170111.	7.8	1
38	Analytical Surface Potential-Based Compact Model for Independent Dual Gate a-IGZO TFT. IEEE Transactions on Electron Devices, 2021, 68, 2049-2055.	1.6	9
39	Resistive switching memory for high density storage and computing*. Chinese Physics B, 2021, 30, 058702.	0.7	9
40	Self-biased magnetoelectric switching at room temperature in three-phase ferroelectric-antiferromagnetic-ferrimagnetic nanocomposites. Nature Electronics, 2021, 4, 333-341.	13.1	18
41	High-Sensitivity Enzymatic Glucose Sensor Based on ZnO Urchin-like Nanostructure Modified with Fe ₃ O ₄ Magnetic Particles. Micromachines, 2021, 12, 977.	1.4	8
42	Emergent perpendicular magnetic anisotropy at the interface of an oxide heterostructure. Physical Review B, 2021, 104, .	1.1	4
43	Enhancing Sunlight Control of Interfacial Magnetism by Introducing the ZnO Layer for Electron Harvesting. ACS Applied Materials & Interfaces, 2021, 13, 2018-2024.	4.0	6
44	Strong dependence of magnetic damping and magnetization on deposition temperature in highly magnetostrictive NiZnAl ferrite thin films. IEEE Transactions on Magnetics, 2021, , 1-1.	1.2	2
45	Monotonically Decreasing Ferromagnetic Resonance Linewidth of Cu/Ni _{0.81} Fe _{0.19} Bilayer Heterostructures with the Increasing Sputtering Rate of the Cu Layer. Journal of Physical Chemistry C, 2021, 125, 24025-24031.	1.5	4
46	Dislocation Defect Layer-Induced Magnetic Bi-states Phenomenon in Epitaxial La _{0.7} Sr _{0.3} MnO ₃ (111) Thin Films. ACS Applied Materials & Interfaces, 2021, , .	4.0	1
47	HfO _x based Ferroelectric Materials and Memories. , 2021, , .		1
48	Voltage Control of Perpendicular Magnetic Anisotropy in Multiferroic Composite Thin Films under Strong Electric Fields. ACS Applied Materials & Interfaces, 2021, 13, 61404-61412.	4.0	3
49	Enhancing the Linearity of Giant Magnetoresistance Sensors by Magnetic Anisotropic Design and Low Temperature Annealing. IEEE Sensors Journal, 2021, 21, 27393-27399.	2.4	3
50	Investigation of positive bias temperature instability for monolayer polycrystalline MoS ₂ field-effect transistors. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	3
51	An artificial spiking afferent nerve based on Mott memristors for neurorobotics. Nature Communications, 2020, 11, 51.	5.8	217
52	Recent progress on the fabrication and applications of flexible ferroelectric devices. Journal of Materials Chemistry C, 2020, 8, 14-27.	2.7	29
53	Ionic Liquid Gating Control of Spin Wave Resonance in La _{0.7} Sr _{0.3} MnO ₃ Thin Film. Advanced Electronic Materials, 2020, 6, 1900859.	2.6	11
54	High-Voltage ($\overline{\{ext{2}\}01}$) η -Ga ₂ O ₃ Vertical Schottky Barrier Diode With Thermally-Oxidized Termination. IEEE Electron Device Letters, 2020, 41, 131-134.	2.2	52

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55	A Habituation Sensory Nervous System with Memristors. <i>Advanced Materials</i> , 2020, 32, e2004398.	11.1	78
56	Voltage Control of Skyrmion Bubbles for Topological Flexible Spintronic Devices. <i>Advanced Electronic Materials</i> , 2020, 6, 2000246.	2.6	12
57	Periodic Wrinkle-Patterned Single-Crystalline Ferroelectric Oxide Membranes with Enhanced Piezoelectricity. <i>Advanced Materials</i> , 2020, 32, e2004477.	11.1	47
58	Flexible CoFeB/Silk Films for Biocompatible RF/Microwave Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51654-51661.	4.0	9
59	A Low Power 4T2C nvSRAM With Dynamic Current Compensation Operation Scheme. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2020, 28, 2469-2473.	2.1	6
60	Quantitatively Evaluating the Effect of Read Noise in Memristive Hopfield Network on Solving Traveling Salesman Problem. <i>IEEE Electron Device Letters</i> , 2020, 41, 1688-1691.	2.2	12
61	Phase transition enhanced superior elasticity in freestanding single-crystalline multiferroic BiFeO ₃ membranes. <i>Science Advances</i> , 2020, 6, .	4.7	73
62	Nucleation-controlled growth of superior lead-free perovskite Cs ₃ Bi ₂ I ₉ single-crystals for high-performance X-ray detection. <i>Nature Communications</i> , 2020, 11, 2304.	5.8	286
63	Electric-field-driven Deterministic and Robust 120° Magnetic Rotation in a Concave Triangular Nanomagnet. <i>Physical Review Applied</i> , 2020, 13, .	1.5	2
64	Low-damping flexible Y ₃ Fe ₅ O ₁₂ thin films for tunable RF/microwave processors. <i>Materials Horizons</i> , 2020, 7, 1558-1565.	6.4	16
65	Study of Positive-Gate-Bias-Induced Hump Phenomenon in Amorphous Indium-Gallium-Zinc Oxide Thin-Film Transistors. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 1606-1612.	1.6	16
66	Physics-Based Device-Circuit Cooptimization Scheme for 7-nm Technology Node SRAM Design and Beyond. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 907-914.	1.6	25
67	A 6.78-MHz Single-Stage Wireless Charger With Constant-Current Constant-Voltage Charging Technique. <i>IEEE Journal of Solid-State Circuits</i> , 2020, 55, 999-1010.	3.5	24
68	Electric Field-Tunable Giant Magnetoresistance (GMR) Sensor with Enhanced Linear Range. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8855-8861.	4.0	25
69	Metal-Semiconductor-Metal μ -Ga ₂ O ₃ Solar-Blind Photodetectors with a Record-High Responsivity Rejection Ratio and Their Gain Mechanism. <i>ACS Photonics</i> , 2020, 7, 812-820.	3.2	152
70	Reconfigurable Magnetoresistive Sensor Based on Magnetoelectric Coupling. <i>Advanced Electronic Materials</i> , 2020, 6, 1901061.	2.6	12
71	Demonstration of 3D Convolution Kernel Function Based on 8-Layer 3D Vertical Resistive Random Access Memory. <i>IEEE Electron Device Letters</i> , 2020, 41, 497-500.	2.2	19
72	Domain evolution in bended freestanding BaTiO ₃ ultrathin films: A phase-field simulation. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	15

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73	A Novel General Compact Model Approach for 7-nm Technology Node Circuit Optimization From Device Perspective and Beyond. IEEE Journal of the Electron Devices Society, 2020, 8, 295-301.	1.2	12
74	Freestanding single-crystal Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ ferrite membranes with controllable enhanced magnetic properties for flexible RF/microwave applications. Journal of Materials Chemistry C, 2020, 8, 17099-17106.	2.7	9
75	Flexible Ferroelectrics: Periodic Wrinkle-Patterned Single-Crystalline Ferroelectric Oxide Membranes with Enhanced Piezoelectricity (Adv. Mater. 50/2020). Advanced Materials, 2020, 32, 2070377.	11.1	0
76	Fast Switching β -Ga ₂ O ₃ Power MOSFET With a Trench-Gate Structure. IEEE Electron Device Letters, 2019, 40, 1385-1388.	2.2	46
77	High-Performance Metal-Organic Chemical Vapor Deposition Grown β -Ga ₂ O ₃ Solar-Blind Photodetector With Asymmetric Schottky Electrodes. IEEE Electron Device Letters, 2019, 40, 1475-1478.	2.2	91
78	A Self-Rectification and Quasi-Linear Analogue Memristor for Artificial Neural Networks. IEEE Electron Device Letters, 2019, 40, 1407-1410.	2.2	42
79	Electric field-tailored giant transformation of magnetic anisotropy and interfacial spin coupling in epitaxial β -Fe ₂ N/Pb(Mg _{1/3} Nb _{2/3}) _{0.7} Ti _{0.3} O ₃ (011) multiferroic heterostructures. Journal of Materials Chemistry C, 2019, 7, 8537-8545.	2.7	11
80	Dynamic Time Evolutionary Aging Analysis for Device-Circuit Lifetime Estimation of Thin-Film Transistors. IEEE Electron Device Letters, 2019, 40, 1439-1442.	2.2	3
81	Observing large ferroelectric polarization in top-electrode-free Al:HfO ₂ thin films with Al-rich strip structures. Applied Physics Letters, 2019, 115, .	1.5	10
82	Improvement of Endurance in HZO-Based Ferroelectric Capacitor Using Ru Electrode. IEEE Electron Device Letters, 2019, 40, 1744-1747.	2.2	85
83	Super-elastic ferroelectric single-crystal membrane with continuous electric dipole rotation. Science, 2019, 366, 475-479.	6.0	272
84	Ultrahigh-Performance Solar-Blind Photodetector Based on α -Phase-Dominated Ga ₂ O ₃ Film With Record Low Dark Current of 81 fA. IEEE Electron Device Letters, 2019, 40, 1483-1486.	2.2	58
85	Time-Tailoring van der Waals Heterostructures for Human Memory System Programming. Advanced Science, 2019, 6, 1901072.	5.6	52
86	Room Temperature-Processed a-IGZO Schottky Diode for Rectifying Circuit and Bipolar 1D1R Crossbar Applications. IEEE Transactions on Electron Devices, 2019, 66, 4087-4091.	1.6	22
87	Controlling the Dirac point voltage of graphene by mechanically bending the ferroelectric gate of a graphene field effect transistor. Materials Horizons, 2019, 6, 302-310.	6.4	21
88	Voltage Control of Perpendicular Exchange Bias in Multiferroic Heterostructures. Advanced Electronic Materials, 2019, 5, 1900192.	2.6	8
89	Strain-based room-temperature non-volatile MoTe ₂ ferroelectric phase change transistor. Nature Nanotechnology, 2019, 14, 668-673.	15.6	128
90	Memory Switching and Threshold Switching in a 3D Nanoscaled NbO _x System. IEEE Electron Device Letters, 2019, 40, 718-721.	2.2	25

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91	Composition-Dependent Ferroelectric Properties in Sputtered Hf _x Zr _{1-x} O ₂ Thin Films. IEEE Electron Device Letters, 2019, 40, 570-573.	2.2	35
92	Review of deep ultraviolet photodetector based on gallium oxide. Chinese Physics B, 2019, 28, 018501.	0.7	85
93	Enhancement-Mode β -Ga ₂ O ₃ Metal-Oxide-Semiconductor Field-Effect Solar-Blind Phototransistor With Ultrahigh Detectivity and Photo-to-Dark Current Ratio. IEEE Electron Device Letters, 2019, 40, 742-745.	2.2	55
94	Uniform, Fast, and Reliable Li _x SiO _y -Based Resistive Switching Memory. IEEE Electron Device Letters, 2019, 40, 554-557.	2.2	20
95	Experimental Demonstration of Conversion-Based SNNs with 1T1R Mott Neurons for Neuromorphic Inference. , 2019, , .		17
96	Solar Driven Spintronics: Sunlight Control of Interfacial Magnetism for Solar Driven Spintronic Applications (Adv. Sci. 24/2019). Advanced Science, 2019, 6, 1970147.	5.6	1
97	Field-Dependent Mobility Enhancement and Contact Resistance in a-IGZO TFTs. IEEE Transactions on Electron Devices, 2019, 66, 5166-5169.	1.6	16
98	A Dual-Functional IGZO-Based Device With Schottky Diode Rectifying and Resistance Switching Behaviors. IEEE Electron Device Letters, 2019, 40, 24-27.	2.2	20
99	Ionic Modulation of Interfacial Magnetism in Light Metal/Ferromagnetic Insulator Layered Nanostructures. Advanced Functional Materials, 2019, 29, 1805592.	7.8	12
100	A Few-Step and Low-Cost Memristor Logic Based on MIG Logic for Frequent-Off Instant-On Circuits in IoT Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 662-666.	2.2	12
101	Tuning the Magnetic Anisotropy of Fe ₃ O ₄ /Pt Heterostructures Fabricated by Atomic Layer Deposition With \ln -Situ Mg Magnetic Field. IEEE Transactions on Magnetics, 2019, 55, 1-7.	1.2	2
102	Anomalous Positive Bias Stress Instability in MoS ₂ Transistors With High-Hydrogen-Concentration SiO ₂ Gate Dielectrics. IEEE Electron Device Letters, 2019, 40, 232-235.	2.2	9
103	A Self-Rectifying Resistive Switching Device Based on HfO ₂ /TaO _x Bilayer Structure. IEEE Transactions on Electron Devices, 2019, 66, 924-928.	1.6	25
104	Microstructure and thermoelectric properties of In ₂ O ₃ /ITO thin film thermocouples with Al ₂ O ₃ protecting layer. Journal of Materials Science: Materials in Electronics, 2019, 30, 1786-1793.	1.1	6
105	Large Piezoelectric Strain with Superior Thermal Stability and Excellent Fatigue Resistance of Lead-Free Potassium Sodium Niobate-Based Grain Orientation-Controlled Ceramics. ACS Applied Materials & Interfaces, 2018, 10, 10220-10226.	4.0	51
106	Full imitation of synaptic metaplasticity based on memristor devices. Nanoscale, 2018, 10, 5875-5881.	2.8	99
107	A new kind of thermocouple made of p-type and n-type semi-conductive oxides with giant thermoelectric voltage for high temperature sensing. Journal of Materials Chemistry C, 2018, 6, 3206-3211.	2.7	23
108	Thermal Driven Giant Spin Dynamics at Three-Dimensional Heteroepitaxial Interface in Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ /BaTiO ₃ -Pillar Nanocomposites. ACS Nano, 2018, 12, 3751-3758.	7.3	27

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109	Topological Defects with Distinct Dipole Configurations in PbTiO_3 Multilayer Films. <i>Physical Review Letters</i> , 2018, 120, 177601.	2.9	55
110	Characterization of the inhomogeneous barrier distribution in a $\text{Pt}/(100)\text{-Ga}_2\text{O}_3$ Schottky diode via its temperature-dependent electrical properties. <i>AIP Advances</i> , 2018, 8, .	0.6	56
111	An Artificial Neuron Based on a Threshold Switching Memristor. <i>IEEE Electron Device Letters</i> , 2018, 39, 308-311.	2.2	248
112	A New Velocity Saturation Model of MoS_2 Field-Effect Transistors. <i>IEEE Electron Device Letters</i> , 2018, 39, 893-896.	2.2	9
113	Ionic liquid gating control of RKKY interaction in $\text{FeCoB}/\text{Ru}/\text{FeCoB}$ and $(\text{Pt}/\text{Co})_2/\text{Ru}/(\text{Co}/\text{Pt})_2$ multilayers. <i>Nature Communications</i> , 2018, 9, 991.	5.8	87
114	Spintronics: Ionic Modulation of the Interfacial Magnetism in a Bilayer System Comprising a Heavy Metal and a Magnetic Insulator for Voltage-Tunable Spintronic Devices (<i>Adv. Mater.</i> 40/2018). <i>Advanced Materials</i> , 2018, 30, 1870302.	11.1	0
115	Hybrid 1T e-DRAM and e-NVM Realized in One 10 nm node Ferro FinFET device with Charge Trapping and Domain Switching Effects. , 2018, , .		30
116	Source-Field-Plated $\text{In}_2\text{-Ga}_2\text{O}_3$ MOSFET with Record Power Figure of Merit of 50.4 MW/cm ² . <i>IEEE Electron Device Letters</i> , 2018, , 1-1.	2.2	50
117	Flexible Lithium Ferrite Nanopillar Arrays for Bending Stable Microwave Magnetism. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39422-39427.	4.0	18
118	Flexible Devices: A Strategy to Modulate the Bending Coupled Microwave Magnetism in Nanoscale Epitaxial Lithium Ferrite for Flexible Spintronic Devices (<i>Adv. Sci.</i> 12/2018). <i>Advanced Science</i> , 2018, 5, 1870077.	5.6	1
119	Bipolar Analog Memristors as Artificial Synapses for Neuromorphic Computing. <i>Materials</i> , 2018, 11, 2102.	1.3	52
120	Highly Stable In-Plane Microwave Magnetism in Flexible $\text{Li}_{0.35}\text{Zn}_{0.3}\text{Fe}_{2.35}\text{O}_4$ (111) Epitaxial Thin Films for Wearable Devices. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32331-32336.	4.0	16
121	A Compact Model for Drift and Diffusion Memristor Applied in Neuron Circuits Design. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 4290-4296.	1.6	21
122	Ionic Liquid Gating Control of Spin Reorientation Transition and Switching of Perpendicular Magnetic Anisotropy. <i>Advanced Materials</i> , 2018, 30, e1801639.	11.1	47
123	A 1300 mm ² Ultrahigh-Performance Digital Imaging Assembly using High-Quality Perovskite Single Crystals. <i>Advanced Materials</i> , 2018, 30, e1707314.	11.1	246
124	Unveiling the Switching Mechanism of a $\text{TaO}_x/\text{HfO}_2$ Self-Selective Cell by Probing the Trap Profiles With RTN Measurements. <i>IEEE Electron Device Letters</i> , 2018, 39, 1152-1155.	2.2	8
125	Self-Polarization in Epitaxial Fully Matched Lead-Free Bismuth Sodium Titanate Based Ferroelectric Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23945-23951.	4.0	14
126	Classification of Three-Level Random Telegraph Noise and Its Application in Accurate Extraction of Trap Profiles in Oxide-Based Resistive Switching Memory. <i>IEEE Electron Device Letters</i> , 2018, 39, 1302-1305.	2.2	8

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127	Magnetic Anisotropy: Ionic Liquid Gating Control of Spin Reorientation Transition and Switching of Perpendicular Magnetic Anisotropy (Adv. Mater. 30/2018). Advanced Materials, 2018, 30, 1870223.	11.1	1
128	A Highly Thermostable In ₂ O ₃ /ITO Thin Film Thermocouple Prepared via Screen Printing for High Temperature Measurements. Sensors, 2018, 18, 958.	2.1	40
129	Facile high-performance film thermocouple made of strontium lanthanum chromate for temperature sensing in air. Journal of the American Ceramic Society, 2018, 101, 4880-4886.	1.9	6
130	Ionic Gel Modulation of RKKY Interactions in Synthetic Antiferromagnetic Nanostructures for Low Power Wearable Spintronic Devices. Advanced Materials, 2018, 30, e1800449.	11.1	49
131	Low voltage induced reversible magnetoelectric coupling in Fe ₃ O ₄ thin films for voltage tunable spintronic devices. Materials Horizons, 2018, 5, 991-999.	6.4	23
132	Electric Field Control of the RKKY Interaction in FeCoB/Ru/FeCoB/PMN/PT (011) Multiferroic Heterostructures. Advanced Materials, 2018, 30, e1803612.	11.1	42
133	Ionic Modulation of the Interfacial Magnetism in a Bilayer System Comprising a Heavy Metal and a Magnetic Insulator for Voltage-Tunable Spintronic Devices. Advanced Materials, 2018, 30, e1802902.	11.1	22
134	Low-Voltage Control of (Co/Pt) ₃ Perpendicular Magnetic Anisotropy Heterostructure for Flexible Spintronics. ACS Nano, 2018, 12, 7167-7173.	7.3	53
135	Temperature induced interface and optical properties of the multi-layer nanotube network. Journal of Applied Physics, 2018, 123, .	1.1	4
136	Proton Radiation Effects on Y-Doped HfO ₂ -Based Ferroelectric Memory. IEEE Electron Device Letters, 2018, 39, 823-826.	2.2	28
137	Effects of Capping Electrode on Ferroelectric Properties of Hf _{0.5} Zr _{0.5} O ₂ Thin Films. IEEE Electron Device Letters, 2018, 39, 1207-1210.	2.2	132
138	Resistive Switching: Breaking the Current-Retention Dilemma in Cation-Based Resistive Switching Devices Utilizing Graphene with Controlled Defects (Adv. Mater. 14/2018). Advanced Materials, 2018, 30, 1870100.	11.1	4
139	Achieving Higher Strength and Sensitivity toward UV Light in Multifunctional Composites by Controlling the Thickness of Nanolayer on the Surface of Glass Fiber. ACS Applied Materials & Interfaces, 2018, 10, 23399-23405.	4.0	3
140	Detecting Electric Dipoles Interaction at the Interface of Ferroelectric and Electrolyte Using Graphene Field Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 4244-4252.	4.0	16
141	Modulation of Spin Dynamics via Voltage Control of Spin-Lattice Coupling in Multiferroics. Advanced Functional Materials, 2017, 27, 1605598.	7.8	40
142	Spin-orbital coupling induced four-fold anisotropy distribution during spin reorientation in ultrathin Co/Pt multilayers. Applied Physics Letters, 2017, 110, .	1.5	10
143	HfO ₂ -Based Highly Stable Radiation-Immune Ferroelectric Memory. IEEE Electron Device Letters, 2017, 38, 330-333.	2.2	39
144	Electric-Field Modulation of Interface Magnetic Anisotropy and Spin Reorientation Transition in (Co/Pt) ₃ /PMN/PT Heterostructure. ACS Applied Materials & Interfaces, 2017, 9, 10855-10864.	4.0	56

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