

Chen Ge

List of Publications by Year in descending order

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105
papers

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citations

172207

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106
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docs citations

106
times ranked

4009
citing authors

#	ARTICLE	IF	CITATIONS
1	Exchange Coupling in Synthetic Anion-Engineered Chromia Heterostructures. <i>Advanced Functional Materials</i> , 2022, 32, 2109828.	7.8	3
2	Ferroelectric Proximity Effect and Topological Hall Effect in SrRuO ₃ /BiFeO ₃ Multilayers. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 6194-6202.	4.0	11
3	Room-Temperature Ferromagnetism at an Oxide-Nitride Interface. <i>Physical Review Letters</i> , 2022, 128, 017202.	2.9	11
4	Anisotropic electronic phase transition in CrN epitaxial thin films. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	10
5	Artificial Multisensory Neurons with Fused Haptic and Temperature Perception for Multimodal In-Sensor Computing. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	25
6	Large-scale Hf _{0.5} Zr _{0.5} O ₂ Membranes with Robust Ferroelectricity. <i>Advanced Materials</i> , 2022, 34, e2109889.	11.1	25
7	Photo-induced non-volatile VO ₂ phase transition for neuromorphic ultraviolet sensors. <i>Nature Communications</i> , 2022, 13, 1729.	5.8	88
8	Flexible VO ₂ Films for In-Sensor Computing with Ultraviolet Light. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
9	Manipulating the electronic structure and physical properties in monolayer Mo ₂ Te ₃ Br ₃ via strain and doping. <i>Nanoscale</i> , 2022, 14, 8934-8943.	2.8	3
10	Photon-interactions with perovskite oxides. <i>Chinese Physics B</i> , 2022, 31, 088106.	0.7	4
11	2022 roadmap on neuromorphic devices and applications research in China. <i>Neuromorphic Computing and Engineering</i> , 2022, 2, 042501.	2.8	4
12	Unraveling the Evolution of Transition Metals during Li Alloying-Dealloying by In-Operando Magnetometry. <i>Chemistry of Materials</i> , 2022, 34, 5852-5859.	3.2	19
13	A calibratable sensory neuron based on epitaxial VO ₂ for spike-based neuromorphic multisensory system. <i>Nature Communications</i> , 2022, 13, .	5.8	67
14	Strain-Mediated High Conductivity in Ultrathin Antiferromagnetic Metallic Nitrides. <i>Advanced Materials</i> , 2021, 33, 2005920.	11.1	25
15	Strong Ferromagnetism Achieved via Breathing Lattices in Atomically Thin Cobaltites. <i>Advanced Materials</i> , 2021, 33, e2001324.	11.1	21
16	Extra storage capacity in transition metal oxide lithium-ion batteries revealed by in situ magnetometry. <i>Nature Materials</i> , 2021, 20, 76-83.	13.3	432
17	Ferromagnetic Materials: Strong Ferromagnetism Achieved via Breathing Lattices in Atomically Thin Cobaltites (<i>Adv. Mater.</i> 4/2021). <i>Advanced Materials</i> , 2021, 33, 2170026.	11.1	0
18	Electrolyte-gated transistors for neuromorphic applications. <i>Journal of Semiconductors</i> , 2021, 42, 013103.	2.0	23

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19	Tunable electronic structure and magnetic anisotropy in bilayer ferromagnetic semiconductor Cr ₂ Ge ₂ Te ₆ . Scientific Reports, 2021, 11, 2744.	1.6	15
20	Structural twinning-induced insulating phase in CrN (111) films. Physical Review Materials, 2021, 5, .	0.9	12
21	Graphene/SrTiO ₃ interface-based UV photodetectors with high responsivity*. Chinese Physics B, 2021, 30, 038502.	0.7	9
22	Dimensional Control of Octahedral Tilt in SrRuO ₃ via Infinite-Layered Oxides. Nano Letters, 2021, 21, 3146-3154.	4.5	14
23	Emergent Magnetic Phenomenon with Unconventional Structure in Epitaxial Manganate Thin Films. Advanced Science, 2021, 8, 2100177.	5.6	7
24	Enhancement of Spin-Orbit Torque by Strain Engineering in SrRuO ₃ Films. Advanced Functional Materials, 2021, 31, 2100380.	7.8	26
25	Reacquainting the Electrochemical Conversion Mechanism of FeS ₂ Sodium-Ion Batteries by Operando Magnetometry. Journal of the American Chemical Society, 2021, 143, 12800-12808.	6.6	69
26	Li-ionic control of magnetism through spin capacitance and conversion. Matter, 2021, 4, 3605-3620.	5.0	18
27	A robust neuromorphic vision sensor with optical control of ferroelectric switching. Nano Energy, 2021, 89, 106439.	8.2	73
28	Strain-engineered high-temperature ferromagnetic oxygen-substituted NaMnF ₃ from first principles. Physical Review B, 2021, 104, .	1.1	1
29	Ferromagnetic Enhancement in LaMnO ₃ Films with Release and Flexure. Advanced Materials Interfaces, 2021, 8, .	1.9	8
30	Ferromagnetic Enhancement in LaMnO ₃ Films with Release and Flexure (Adv. Mater.)	1.9	8
31	Effect of mechanical force on domain switching in BiFeO ₃ ultrathin films. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	5
32	Gating-induced reversible HxVO ₂ phase transformations for neuromorphic computing. Nano Energy, 2020, 67, 104268.	8.2	55
33	Structure demonstration of perovskite oxide and its epitaxial thin films by second harmonic generation. Science China Technological Sciences, 2020, 63, 874-876.	2.0	2
34	Reproducible Ultrathin Ferroelectric Domain Switching for High-Performance Neuromorphic Computing. Advanced Materials, 2020, 32, e1905764.	11.1	147
35	A synaptic transistor with NdNiO ₃ *. Chinese Physics B, 2020, 29, 098101.	0.7	6
36	Metal Silicidation in Conjunction with Dopant Segregation: A Promising Strategy for Fabricating High-Performance Silicon-Based Photoanodes. ACS Applied Materials & Interfaces, 2020, 12, 39092-39097.	4.0	10

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37	Synthesis of single-crystal La _{0.67} Sr _{0.33} MnO ₃ freestanding films with different crystal-orientation. APL Materials, 2020, 8, .	2.2	31
38	Switching Magnetic Anisotropy of SrRuO_3 by Capping-Layer-Induced Octahedral Distortion. Physical Review Applied, 2020, 13, .	1.5	14
39	Dual-Gated MoS ₂ Transistors for Synaptic and Programmable Logic Functions. Advanced Electronic Materials, 2020, 6, 1901408.	2.6	41
40	Switchable ferroelectric diode and photovoltaic effects in polycrystalline BiFeO ₃ thin films grown on transparent substrates. Thin Solid Films, 2020, 698, 137851.	0.8	27
41	Electrochemistry Induced Giant and Reversible Deformation in Oxides. Advanced Functional Materials, 2020, 30, 1908826.	7.8	2
42	Reversible control of magnetization in Fe ₃ O ₄ nanoparticles by a supercapacitor. Journal of Physics Condensed Matter, 2020, 32, 334001.	0.7	15
43	Influence of micro-structure on modulation properties in VO ₂ composite terahertz memory metamaterials. Optics Express, 2020, 28, 31436.	1.7	2
44	Giant photoinduced lattice distortion in oxygen vacancy ordered SrCoO_{3-x} thin films. Physical Review B, 2019, 100, .	1.1	2.5
45	Energy-Efficient Artificial Synapses Based on Oxide Tunnel Junctions. ACS Applied Materials & Interfaces, 2019, 11, 43473-43479.	4.0	21
46	Multiferroic Metal-PbNb _{0.12} Ti _{0.88} O ₃ Films on Nb-Doped STO. ACS Applied Electronic Materials, 2019, 1, 2109-2115.	2.0	13
47	Growth and physical properties of BiFeO ₃ thin films directly on Si substrate. Journal of Crystal Growth, 2019, 522, 110-116.	0.7	10
48	Magnetoresistance in Metallic Ferroelectrics. ACS Applied Electronic Materials, 2019, 1, 1225-1232.	2.0	4
49	Giant Electroresistance in Ferroionic Tunnel Junctions. IScience, 2019, 16, 368-377.	1.9	51
50	Electrolyte-Gated Synaptic Transistor with Oxygen Ions. Advanced Functional Materials, 2019, 29, 1902702.	7.8	103
51	Electronic structure evolutions driven by oxygen vacancy in SrCoO _{3-x} films. Science China Materials, 2019, 62, 1162-1168.	3.5	27
52	A Ferrite Synaptic Transistor with Topotactic Transformation. Advanced Materials, 2019, 31, e1900379.	11.1	134
53	Internal Electric Field and Polarization Backswitching Induced by Nb Doping in BiFeO ₃ Thin Films. ACS Applied Electronic Materials, 2019, 1, 2701-2707.	2.0	12
54	SnSe ₂ Field-Effect Transistor with High On/Off Ratio and Polarity-Switchable Photoconductivity. Nanoscale Research Letters, 2019, 14, 17.	3.1	13

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55	Maximization of ferromagnetism in LaCoO_3 films by competing symmetry. <i>Physical Review Materials</i> , 2019, 3, .	0.9	13
56	Manipulating the Structural and Electronic Properties of Epitaxial $\text{SrCoO}_{2.5}$ Thin Films by Tuning the Epitaxial Strain. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10211-10219.	4.0	31
57	Strain-engineering stabilization of BaTiO_3 -based polar metals. <i>Physical Review B</i> , 2018, 97, .	1.1	26
58	Temperature-dependent phase transition in barium titanate crystals probed by second harmonic generation. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	16
59	Manipulating the Ferroelectric Domain States and Structural Distortion in Epitaxial BiFeO_3 Ultrathin Films via Bi Nonstoichiometry. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43792-43801.	4.0	15
60	Biaxial strain engineering of charge ordering and orbital ordering in HoNiO_3 . <i>Physical Review B</i> , 2018, 97, .	1.1	5
61	Artificial Synapses Emulated by an Electrolyte-Gated Tungsten Oxide Transistor. <i>Advanced Materials</i> , 2018, 30, e1801548.	11.1	293
62	Solar-blind ultraviolet photodetector based on $(\text{LaAlO}_3)_{0.3}(\text{SrAlO}_2\text{TaO}_5)_{0.7}$ single crystal. <i>AIP Advances</i> , 2017, 7, .	0.6	9
63	Effects of BaTiO_3 and SrTiO_3 as the buffer layers of epitaxial BiFeO_3 thin films. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	2.0	11
64	Self-driven visible-blind photodetector based on ferroelectric perovskite oxides. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	64
65	Effects of line defects on the electronic and optical properties of strain-engineered WO_3 thin films. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11694-11699.	2.7	25
66	Electrochemically Driven Giant Resistive Switching in Perovskite Nickelates Heterostructures. <i>Advanced Electronic Materials</i> , 2017, 3, 1700321.	2.6	32
67	Manipulating magnetoelectric properties by interfacial coupling in $\text{La}_{0.3}\text{Sr}_{0.7}\text{MnO}_3/\text{Ba}_{0.7}\text{Sr}_{0.3}\text{TiO}_3$ superlattices. <i>Scientific Reports</i> , 2017, 7, 7693.	1.6	11
68	Coexistence of polar distortion and metallicity in PbTiO_3 . <i>Physical Review B</i> , 2017, 96, .	1.1	34
69	Oxygen vacancies effects on phase diagram of epitaxial $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ thin films. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	2.0	8
70	Effect of Terraces at the Interface on the Structural and Physical Properties of $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$ Thin Films. <i>Chinese Physics Letters</i> , 2016, 33, 076801.	1.3	3
71	The Origin of Oxygen Vacancies Controlling $\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ Electronic and Magnetic Properties. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500753.	1.9	73
72	Toward Switchable Photovoltaic Effect via Tailoring Mobile Oxygen Vacancies in Perovskite Oxide Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34590-34597.	4.0	32

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73	Temperature-dependent resistance switching in SrTiO ₃ . Applied Physics Letters, 2016, 108, 242901.	1.5	7
74	Dynamics of surface screening charges on domains of BiFeO ₃ films. AIP Advances, 2016, 6, 015220.	0.6	3
75	Insulating phase at low temperature in ultrathin La _{0.8} Sr _{0.2} MnO ₃ films. Scientific Reports, 2016, 6, 22382.	1.6	35
76	Controllable growth of ultrathin BiFeO ₃ from finger-like nanostripes to atomically flat films. Nanotechnology, 2016, 27, 355604.	1.3	7
77	Highly sensitive and ultrafast deep UV photodetector based on a In^{2+} -Ga ₂ O ₃ nanowire network grown by CVD. Journal Physics D: Applied Physics, 2016, 49, 425105.	1.3	55
78	Evolution of the electronic and lattice structure with carrier injection in BiFeO ₃ . Physical Review B, 2016, 93, .	1.1	13
79	High-performance visible blind ultraviolet photodetector based on KTaO ₃ single crystal. Applied Optics, 2016, 55, 2259.	2.1	8
80	Ferroelectric control of metal-insulator transition. Solid State Communications, 2016, 229, 32-36.	0.9	1
81	5. Research on the photoelectric effect in perovskite oxide heterostructures. , 2015, , 191-230.		0
82	Metal-insulator Transition Induced by Oxygen Vacancies from Electrochemical Reaction in Ionic Liquid-gated Manganite Films. Advanced Materials Interfaces, 2015, 2, 1500407.	1.9	68
83	The Research of Metal Pieces Codes Automatic Recognition System Based on LabVIEW. , 2015, , .		1
84	Interfacial-Strain-Induced Structural and Polarization Evolutions in Epitaxial Multiferroic BiFeO ₃ (001) Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 2944-2951.	4.0	32
85	Electro-photo double modulation on the resistive switching behavior and switchable photoelectric effect in BiFeO ₃ films. Applied Physics Letters, 2013, 102, .	1.5	62
86	RESISTIVE SWITCHING PHENOMENA IN COMPLEX OXIDE HETEROSTRUCTURES. Modern Physics Letters B, 2013, 27, 1330021.	1.0	6
87	Electrode effect on high-detectivity ultraviolet photodetectors based on perovskite oxides. Journal of Applied Physics, 2013, 114, .	1.1	29
88	The oxygen vacancy effect on the magnetic property of the LaMnO ₃ thin films. Applied Physics Letters, 2013, 102, .	1.5	58
89	Recent Progress in Ferroelectric Diodes: Explorations in Switchable Diode Effect. Nano-Micro Letters, 2013, 5, 81-87.	14.4	22
90	The mechanism of the maximum photovoltage in perovskite oxide heterostructures with the critical thickness. Europhysics Letters, 2013, 102, 37007.	0.7	8

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91	High-sensitivity SrTiO ₃ photodetectors with paralleled multiple interdigital electrode cells. Applied Optics, 2013, 52, 3473.	0.9	17
92	Electronic transport and photovoltaic properties in Bi ₂ Sr ₂ Co ₂ O _y epitaxial heterostructures. Europhysics Letters, 2013, 103, 47006.	0.7	3
93	Electrical properties of thermoelectric cobalt Ca ₃ Co ₄ O ₉ epitaxial heterostructures. Journal of Applied Physics, 2013, 113, 113707.	1.1	13
94	MECHANISM STUDY ON OXYGEN VACANCY INDUCED RESISTANCE SWITCHING IN Au/LaMnO ₃ /SrNb _{0.01} Ti _{0.99} O ₃ . Modern Physics Letters B, 2013, 27, 1350074.	0.9	1
95	Recent Progress in Ferroelectric Diodes: Explorations in Switchable Diode Effect. Nano-Micro Letters, 2013, 5, 81.	14.4	1
96	Effect of ferroelectric parameters on ferroelectric diodes. Journal of Applied Physics, 2012, 111, 054104.	1.1	17
97	Evidence for a Crucial Role Played by Oxygen Vacancies in LaMnO ₃ Resistive Switching Memories. Small, 2012, 8, 1279-1284.	5.2	146
98	Switchable diode effect and ferroelectric resistive switching in epitaxial BiFeO ₃ thin films. Applied Physics Letters, 2011, 98, .	1.5	325
99	Photo-resistance and photo-voltage in epitaxial BiFeO ₃ thin films. Europhysics Letters, 2011, 96, 17008.	0.7	13
100	Numerical investigation into the switchable diode effect in metal-ferroelectric-metal structures. Applied Physics Letters, 2011, 99, .	1.5	55
101	Ultimate photovoltage in perovskite oxide heterostructures with critical film thickness. Applied Physics Letters, 2011, 98, .	1.5	32
102	Mechanisms for the enhancement of the lateral photovoltage in perovskite heterostructures. Solid State Communications, 2010, 150, 2114-2117.	0.9	11
103	A theoretical study on the dynamic process of the lateral photovoltage in perovskite oxide heterostructures. Applied Physics Letters, 2010, 96, .	1.5	16
104	NOVEL PROPERTIES IN OXIDE HETEROSTRUCTURES. Modern Physics Letters B, 2009, 23, 1129-1145.	1.0	2
105	Novel Multifunctional Properties Induced by Interface Effects in Perovskite Oxide Heterostructures. Advanced Materials, 2009, 21, 4636-4640.	11.1	75