

Chen Ge

List of Publications by Year in descending order

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105
papers

3,643
citations

172207

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143772

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106
all docs

106
docs citations

106
times ranked

4009
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Switchable diode effect and ferroelectric resistive switching in epitaxial BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	325
3	Artificial Synapses Emulated by an Electrolyte-Gated Tungsten-Oxide Transistor. <i>Advanced Materials</i> , 2018, 30, e1801548.	11.1	293
4	Reproducible Ultrathin Ferroelectric Domain Switching for High-Performance Neuromorphic Computing. <i>Advanced Materials</i> , 2020, 32, e1905764.	11.1	147
5	Evidence for a Crucial Role Played by Oxygen Vacancies in LaMnO ₃ Resistive Switching Memories. <i>Small</i> , 2012, 8, 1279-1284.	5.2	146
6	A Ferrite Synaptic Transistor with Topotactic Transformation. <i>Advanced Materials</i> , 2019, 31, e1900379.	11.1	134
7	Electrolyte-Gated Synaptic Transistor with Oxygen Ions. <i>Advanced Functional Materials</i> , 2019, 29, 1902702.	7.8	103
8	Photo-induced non-volatile VO ₂ phase transition for neuromorphic ultraviolet sensors. <i>Nature Communications</i> , 2022, 13, 1729.	5.8	88
9	Novel Multifunctional Properties Induced by Interface Effects in Perovskite Oxide Heterostructures. <i>Advanced Materials</i> , 2009, 21, 4636-4640.	11.1	75
10	The Origin of Oxygen Vacancies Controlling La _{2/3} Sr _{1/3} MnO ₃ Electronic and Magnetic Properties. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500753.	1.9	73
11	A robust neuromorphic vision sensor with optical control of ferroelectric switching. <i>Nano Energy</i> , 2021, 89, 106439.	8.2	73
12	Reacquainting the Electrochemical Conversion Mechanism of FeS ₂ Sodium-Ion Batteries by Operando Magnetometry. <i>Journal of the American Chemical Society</i> , 2021, 143, 12800-12808.	6.6	69
13	Metal-Insulator Transition Induced by Oxygen Vacancies from Electrochemical Reaction in Ionic Liquid-Gated Manganite Films. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500407.	1.9	68
14	A calibratable sensory neuron based on epitaxial VO ₂ for spike-based neuromorphic multisensory system. <i>Nature Communications</i> , 2022, 13, .	5.8	67
15	Self-driven visible-blind photodetector based on ferroelectric perovskite oxides. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	64
16	Electro-photo double modulation on the resistive switching behavior and switchable photoelectric effect in BiFeO ₃ films. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	62
17	The oxygen vacancy effect on the magnetic property of the LaMnO ₃ thin films. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	58
18	Numerical investigation into the switchable diode effect in metal-ferroelectric-metal structures. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	55

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19	Highly sensitive and ultrafast deep UV photodetector based on $\text{In}^2\text{-Ga}_2\text{O}_3$ nanowire network grown by CVD. Journal Physics D: Applied Physics, 2016, 49, 425105.	1.3	55
20	Gating-induced reversible HxVO_2 phase transformations for neuromorphic computing. Nano Energy, 2020, 67, 104268.	8.2	55
21	Giant Electroresistance in Ferroionic Tunnel Junctions. IScience, 2019, 16, 368-377.	1.9	51
22	Dual-Gated MoS_2 Transistors for Synaptic and Programmable Logic Functions. Advanced Electronic Materials, 2020, 6, 1901408.	2.6	41
23	Insulating phase at low temperature in ultrathin $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$ films. Scientific Reports, 2016, 6, 22382.	1.6	35
24	Coexistence of polar distortion and metallicity in PbTiO_3 . Physical Review B, 2017, 96, .	1.1	34
25	Ultimate photovoltage in perovskite oxide heterostructures with critical film thickness. Applied Physics Letters, 2011, 98, .	1.5	32
26	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
27	Toward Switchable Photovoltaic Effect via Tailoring Mobile Oxygen Vacancies in Perovskite Oxide Films. ACS Applied Materials & Interfaces, 2016, 8, 34590-34597.	4.0	32
28	Electrochemically Driven Giant Resistive Switching in Perovskite Nickelates Heterostructures. Advanced Electronic Materials, 2017, 3, 1700321.	2.6	32
29	Manipulating the Structural and Electronic Properties of Epitaxial $\text{SrCoO}_{2.5}$ Thin Films by Tuning the Epitaxial Strain. ACS Applied Materials & Interfaces, 2018, 10, 10211-10219.	4.0	31
30	Synthesis of single-crystal $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ freestanding films with different crystal-orientation. APL Materials, 2020, 8, .	2.2	31
31	Electrode effect on high-detectivity ultraviolet photodetectors based on perovskite oxides. Journal of Applied Physics, 2013, 114, .	1.1	29
32	Electronic structure evolutions driven by oxygen vacancy in SrCoO_{3-x} films. Science China Materials, 2019, 62, 1162-1168.	3.5	27
33	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
34	Strain-engineering stabilization of BaTiO_3 -based polar metals. Physical Review B, 2018, 97, .	1.1	26
35	Enhancement of Spin-Orbit Torque by Strain Engineering in SrRuO_3 Films. Advanced Functional Materials, 2021, 31, 2100380.	7.8	26
36	Effects of line defects on the electronic and optical properties of strain-engineered WO_3 thin films. Journal of Materials Chemistry C, 2017, 5, 11694-11699.	2.7	25

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37	Strain-Mediated High Conductivity in Ultrathin Antiferromagnetic Metallic Nitrides. <i>Advanced Materials</i> , 2021, 33, 2005920.	11.1	25
38	Artificial Multisensory Neurons with Fused Haptic and Temperature Perception for Multimodal In-Sensor Computing. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	25
39	Large-scale $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$ Membranes with Robust Ferroelectricity. <i>Advanced Materials</i> , 2022, 34, e2109889.	11.1	25
40	Electrolyte-gated transistors for neuromorphic applications. <i>Journal of Semiconductors</i> , 2021, 42, 013103.	2.0	23
41	Recent Progress in Ferroelectric Diodes: Explorations in Switchable Diode Effect. <i>Nano-Micro Letters</i> , 2013, 5, 81-87.	14.4	22
42	Energy-Efficient Artificial Synapses Based on Oxide Tunnel Junctions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43473-43479.	4.0	21
43	Strong Ferromagnetism Achieved via Breathing Lattices in Atomically Thin Cobaltites. <i>Advanced Materials</i> , 2021, 33, e2001324.	11.1	21
44	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
45	Li-ionic control of magnetism through spin capacitance and conversion. <i>Matter</i> , 2021, 4, 3605-3620.	5.0	18
46	Effect of ferroelectric parameters on ferroelectric diodes. <i>Journal of Applied Physics</i> , 2012, 111, 054104.	1.1	17
47	High-sensitivity SrTiO_3 photodetectors with paralleled multiple interdigital electrode cells. <i>Applied Optics</i> , 2013, 52, 3473.	0.9	17
48	Flexible VO_2 Films for In-Sensor Computing with Ultraviolet Light. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
49	A theoretical study on the dynamic process of the lateral photovoltage in perovskite oxide heterostructures. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	16
50	Temperature-dependent phase transition in barium titanate crystals probed by second harmonic generation. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	16
51	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
52	Reversible control of magnetization in Fe_3O_4 nanoparticles by a supercapacitor. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 334001.	0.7	15
53	Tunable electronic structure and magnetic anisotropy in bilayer ferromagnetic semiconductor $\text{Cr}_2\text{Ge}_2\text{Te}_6$. <i>Scientific Reports</i> , 2021, 11, 2744.	1.6	15
54	Switching Magnetic Anisotropy of $\text{Sr}_{x}\text{Ru}_{1-x}\text{O}_3$ by Capping-Layer-Induced Octahedral Distortion. <i>Physical Review Applied</i> , 2020, 13, .	1.5	14

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55	Dimensional Control of Octahedral Tilt in SrRuO ₃ via Infinite-Layered Oxides. Nano Letters, 2021, 21, 3146-3154.	4.5	14
56	Photo-resistance and photo-voltage in epitaxial BiFeO ₃ thin films. Europhysics Letters, 2011, 96, 17008.	0.7	13
57	Electrical properties of thermoelectric cobalt Ca ₃ Co ₄ O ₉ epitaxial heterostructures. Journal of Applied Physics, 2013, 113, 113707.	1.1	13
58	Evolution of the electronic and lattice structure with carrier injection in BiFeO ₃ . Physical Review B, 2016, 93, .	1.1	13
59	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
60	SnSe ₂ Field-Effect Transistor with High On/Off Ratio and Polarity-Switchable Photoconductivity. Nanoscale Research Letters, 2019, 14, 17.	3.1	13
61	Maximization of ferromagnetism in LaCoO ₃ films by competing symmetry. Physical Review Materials, 2019, 3, .	0.9	13
62	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
63	Structural twinning-induced insulating phase in CrN (111) films. Physical Review Materials, 2021, 5, .	0.9	12
64	Mechanisms for the enhancement of the lateral photovoltage in perovskite heterostructures. Solid State Communications, 2010, 150, 2114-2117.	0.9	11
65	Effects of BaTiO ₃ and SrTiO ₃ as the buffer layers of epitaxial BiFeO ₃ thin films. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	2.0	11
66	Manipulating magnetoelectric properties by interfacial coupling in La _{0.3} Sr _{0.7} MnO ₃ /Ba _{0.7} Sr _{0.3} TiO ₃ superlattices. Scientific Reports, 2017, 7, 7693.	1.6	11
67	Ferroelectric Proximity Effect and Topological Hall Effect in SrRuO ₃ /BiFeO ₃ Multilayers. ACS Applied Materials & Interfaces, 2022, 14, 6194-6202.	4.0	11
68	Room-Temperature Ferromagnetism at an Oxide-Nitride Interface. Physical Review Letters, 2022, 128, 017202.	2.9	11
69	Growth and physical properties of BiFeO ₃ thin films directly on Si substrate. Journal of Crystal Growth, 2019, 522, 110-116.	0.7	10
70	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
71	Anisotropic electronic phase transition in CrN epitaxial thin films. Applied Physics Letters, 2022, 120, .	1.5	10
72	Solar-blind ultraviolet photodetector based on (LaAlO ₃) _{0.3} -(SrAl _{0.5} Ta _{0.5} O ₃) _{0.7} single crystal. AIP Advances, 2017, 7, .	0.6	9

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73	Giant photoinduced lattice distortion in oxygen vacancy ordered SrCoO_{3-x} thin films. <i>Physical Review B</i> , 2019, 100, .	11.1	25
74	Graphene/ SrTiO_3 interface-based UV photodetectors with high responsivity*. <i>Chinese Physics B</i> , 2021, 30, 038502.	0.7	9
75	The mechanism of the maximum photovoltage in perovskite oxide heterostructures with the critical thickness. <i>Europhysics Letters</i> , 2013, 102, 37007.	0.7	8
76	High-performance visible blind ultraviolet photodetector based on KTaO_3 single crystal. <i>Applied Optics</i> , 2016, 55, 2259.	2.1	8
77	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
78	Ferromagnetic Enhancement in LaMnO_3 Films with Release and Flexure. <i>Advanced Materials Interfaces</i> , 2021, 8, .	1.9	8
79	Temperature-dependent resistance switching in SrTiO_3 . <i>Applied Physics Letters</i> , 2016, 108, 242901.	1.5	7
80	Controllable growth of ultrathin BiFeO_3 from finger-like nanostripes to atomically flat films. <i>Nanotechnology</i> , 2016, 27, 355604.	1.3	7
81	Emergent Magnetic Phenomenon with Unconventional Structure in Epitaxial Manganate Thin Films. <i>Advanced Science</i> , 2021, 8, 2100177.	5.6	7
82	RESISTIVE SWITCHING PHENOMENA IN COMPLEX OXIDE HETEROSTRUCTURES. <i>Modern Physics Letters B</i> , 2013, 27, 1330021.	1.0	6
83	MECHANISM STUDY ON OXYGEN VACANCY INDUCED RESISTANCE SWITCHING IN $\text{Au}/\text{LaMnO}_3/\text{SrNbTiO}_3/\text{Cu}$. <i>Modern Physics Letters B</i> , 2013, 27, 1350074.	1.9	6
84	A synaptic transistor with NdNiO_3 *. <i>Chinese Physics B</i> , 2020, 29, 098101.	0.7	6
85	Biaxial strain engineering of charge ordering and orbital ordering in HoNiO_3 . <i>Physical Review B</i> , 2018, 97, .	1.1	5
86	Effect of mechanical force on domain switching in BiFeO_3 ultrathin films. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	2.0	5
87	Magneto-resistance in Metallic Ferroelectrics. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1225-1232.	2.0	4
88	Photon-interactions with perovskite oxides. <i>Chinese Physics B</i> , 2022, 31, 088106.	0.7	4
89	2022 roadmap on neuromorphic devices and applications research in China. <i>Neuromorphic Computing and Engineering</i> , 2022, 2, 042501.	2.8	4
90	Electronic transport and photovoltaic properties in $\text{Bi}_2\text{Sr}_2\text{Co}_2\text{O}_y$ epitaxial heterostructures. <i>Europhysics Letters</i> , 2013, 103, 47006.	0.7	3

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91	Effect of Terraces at the Interface on the Structural and Physical Properties of La _{0.8} Sr _{0.2} MnO ₃ Thin Films. Chinese Physics Letters, 2016, 33, 076801.	1.3	3
92	Dynamics of surface screening charges on domains of BiFeO ₃ films. AIP Advances, 2016, 6, 015220.	0.6	3
93	Exchange Coupling in Synthetic Anion-Engineered Chromia Heterostructures. Advanced Functional Materials, 2022, 32, 2109828.	7.8	3
94	Manipulating the electronic structure and physical properties in monolayer Mo ₂ I ₃ Br ₃ via strain and doping. Nanoscale, 2022, 14, 8934-8943.	2.8	3
95	NOVEL PROPERTIES IN OXIDE HETEROSTRUCTURES. Modern Physics Letters B, 2009, 23, 1129-1145.	1.0	2
96	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
97	Electrochemistry Induced Giant and Reversible Deformation in Oxides. Advanced Functional Materials, 2020, 30, 1908826.	7.8	2
98	Influence of micro-structure on modulation properties in VO ₂ composite terahertz memory metamaterials. Optics Express, 2020, 28, 31436.	1.7	2
99	Strain-engineered high-temperature ferromagnetic oxygen-substituted NaMnF_3 from first principles. Physical Review B, 2021, 104, .		
100	The Research of Metal Pieces Codes Automatic Recognition System Based on LabVIEW. , 2015, , .		1
101	Ferroelectric control of metal-insulator transition. Solid State Communications, 2016, 229, 32-36.	0.9	1
102	Recent Progress in Ferroelectric Diodes: Explorations in Switchable Diode Effect. Nano-Micro Letters, 2013, 5, 81.	14.4	1
103	5. Research on the photoelectric effect in perovskite oxide heterostructures. , 2015, , 191-230.		0
104	Ferromagnetic Materials: Strong Ferromagnetism Achieved via Breathing Lattices in Atomically Thin Cobaltites (Adv. Mater. 4/2021). Advanced Materials, 2021, 33, 2170026.	11.1	0
105	Ferromagnetic Enhancement in LaMnO ₃ Films with Release and Flexure (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT ₀ /Overlo	1.9	