

# Xiangli Zhong

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,197  
citations

331670

21  
h-index

395702

33  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1691  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically driven motion, destruction, and chirality change of polar vortices in oxide superlattices. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, 1.	5.1	6
2	Improved thermal stability of AlCrSiN coatings base on the template effect of TiAlN layer. <i>Surface Engineering</i> , 2022, 38, 37-43.	2.2	0
3	Failure Analysis of Commercial Ferroelectric Random Access Memory for Single Event Effect. <i>IEEE Transactions on Nuclear Science</i> , 2022, 69, 890-899.	2.0	2
4	Significantly enhanced energy storage density and efficiency in flexible Bi <sub>3.15</sub> Nd <sub>0.85</sub> Ti <sub>3</sub> O <sub>12</sub> thin film via periodic dielectric layers. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	2
5	Realization of a Flexible Humidity Sensor Based on In <sub>2</sub> Se <sub>3</sub> Nanosheets. <i>ChemNanoMat</i> , 2022, 8, .	2.8	4
6	Super-flexibility in Freestanding Single-Crystal SrRuO <sub>3</sub> Conductive Oxide Membranes. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2987-2992.	4.3	5
7	Analysis of Ion-Induced SEFI and SEL Phenomena in 90 nm NOR Flash Memory. <i>IEEE Transactions on Nuclear Science</i> , 2021, 68, 2508-2515.	2.0	1
8	Hydrogen-Related Recovery Effect of AlGaN/GaN High-Electron-Mobility Transistors Irradiated by High-Fluence Protons. <i>IEEE Transactions on Nuclear Science</i> , 2021, 68, 118-123.	2.0	12
9	Mechanical Manipulation of Nano-Twinned Ferroelectric Domain Structures for Multilevel Data Storage. <i>Advanced Functional Materials</i> , 2021, 31, 2011029.	14.9	9
10	Theory prediction of PC3 monolayer as a promising anode material in potassium-ion batteries. <i>Ionics</i> , 2021, 27, 2465-2471.	2.4	7
11	Creating polar antivortex in PbTiO <sub>3</sub> /SrTiO <sub>3</sub> superlattice. <i>Nature Communications</i> , 2021, 12, 2054.	12.8	50
12	High Energy Performance Ferroelectric (Ba,Sr)(Zr,Ti)O <sub>3</sub> Film Capacitors Integrated on Si at 400 Å°C. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 22717-22727.	8.0	29
13	Prediction and experimental verification of erosion resistance of gas switch electrode materials. <i>AIP Advances</i> , 2021, 11, 055206.	1.3	1
14	Effects of physical properties of N-doped carbon on carbon/N-doped carbon/sulfur composite cathodes. <i>Ionics</i> , 2021, 27, 3271.	2.4	5
15	Highly Ordered SnO <sub>2</sub> Nanopillar Array as Binder-Free Anodes for Long-Life and High-Rate Li-Ion Batteries. <i>Nanomaterials</i> , 2021, 11, 1307.	4.1	12
16	Engineering polar vortex from topologically trivial domain architecture. <i>Nature Communications</i> , 2021, 12, 4620.	12.8	20
17	Proton-Induced Effect on AlGaN/GaN HEMTs After Hydrogen Treatment. <i>IEEE Transactions on Device and Materials Reliability</i> , 2021, 21, 297-302.	2.0	5
18	Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> -Based Ferroelectric Field-Effect Transistors With HfO <sub>2</sub> Seed Layers for Radiation-Hard Nonvolatile Memory Applications. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 4368-4372.	3.0	18

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19	Probing Ultrafast Dynamics of Ferroelectrics by Time-Resolved Pump-Probe Spectroscopy. <i>Advanced Science</i> , 2021, 8, e2102488.	11.2	19
20	Large-scale multiferroic complex oxide epitaxy with magnetically switched polarization enabled by solution processing. <i>National Science Review</i> , 2020, 7, 84-91.	9.5	20
21	Highly Robust Flexible Ferroelectric Field Effect Transistors Operable at High Temperature with Low-Power Consumption. <i>Advanced Functional Materials</i> , 2020, 30, 1906131.	14.9	32
22	Ferroelectric Field Effect Transistors: Highly Robust Flexible Ferroelectric Field Effect Transistors Operable at High Temperature with Low-Power Consumption ( <i>Adv. Funct. Mater.</i> 1/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070005.	14.9	1
23	In-Plane Strain-Modulated Photoresponsivity of the $\text{In}_2\text{Se}_3$ -Based Flexible Transistor. <i>ACS Applied Electronic Materials</i> , 2020, 2, 140-146.	4.3	26
24	A neutron irradiation-induced displacement damage of indium vacancies in $\text{In}_2\text{Se}_3$ nanoflakes. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15799-15804.	2.8	9
25	$\beta$ -ray Radiation on Flexible Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 7318-7324.	5.1	27
26	Atomic-scale observations of electrical and mechanical manipulation of topological polar flux closure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18954-18961.	7.1	41
27	Flexible electronic synapse enabled by ferroelectric field effect transistor for robust neuromorphic computing. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	57
28	Superparaelectric $(\text{Ba}_{0.95}\text{Sr}_{0.05})(\text{Zr}_{0.2}\text{Ti}_{0.8}\text{O}_3)$ Ultracapacitors. <i>Advanced Energy Materials</i> , 2020, 10, 2001778.	19.5	69
29	Epitaxial array of $\text{Fe}_3\text{O}_4$ nanodots for high rate high capacity conversion type lithium ion batteries electrode with long cycling life. <i>Nano Energy</i> , 2020, 74, 104876.	16.0	51
30	Pore-making ionic liquid driven carbon as polar mixture for carbon/sulfur composite cathodes. <i>Ionics</i> , 2020, 26, 2949-2957.	2.4	0
31	Effect of interfacial delamination on coating crack in thick diamond-like carbon coatings under indentation. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2020, 36, 524-535.	3.4	6
32	The total dose effect of $\beta$ -ray induced domain evolution on $\text{In}_2\text{Se}_3$ nanoflakes. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7160-7164.	2.8	10
33	Negative differential resistance effect in resistive switching devices based on $\text{h-LuFeO}_3/\text{CoFe}_2\text{O}_4$ heterojunctions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5819-5825.	2.8	17
34	An Effective Strategy for Photoelectric Performance Enhancement of 2D Perovskite via Halogenating Organic Cation: A Theoretical Prediction. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900599.	1.5	1
35	Atomic imaging of mechanically induced topological transition of ferroelectric vortices. <i>Nature Communications</i> , 2020, 11, 1840.	12.8	49
36	Polar and Nonpolar Matrix Consisting of Twined Multiwalled Carbon Nanotube and High Nitrogen-Doped Porous Carbon Derived from Ionic Liquid for Stable $\text{Li-SS}$ Battery. <i>Energy Technology</i> , 2019, 7, 1900470.	3.8	2

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37	$\text{In}_2\text{Se}_3$ Nanoflakes Modulated by Ferroelectric Polarization and Pt Nanodots for Photodetection. ACS Applied Nano Materials, 2019, 2, 4443-4450.	5.0	34
38	Hierarchical micro-mesoporous carbon prepared from waste cotton textile for lithium-sulfur batteries. Ionics, 2019, 25, 4057-4066.	2.4	14
39	Enhanced electromagnon excitations in Nd-doped $\text{BiFeO}_3$ nanoparticles near morphotropic phase boundaries. Physical Chemistry Chemical Physics, 2019, 21, 21381-21388.	2.8	11
40	Resistive switching behavior in $\text{In}_2\text{Se}_3$ nanoflakes modulated by ferroelectric polarization and interface defects. RSC Advances, 2019, 9, 30565-30569.	3.6	21
41	Subunit cell-level measurement of polarization in an individual polar vortex. Science Advances, 2019, 5, eaav4355.	10.3	31
42	An ultrathin flexible electronic device based on the tunneling effect: a flexible ferroelectric tunnel junction. Journal of Materials Chemistry C, 2018, 6, 5193-5198.	5.5	29
43	Self-assembling epitaxial growth of a single crystalline $\text{CoFe}_2\text{O}_4$ nanopillar array via dual-target pulsed laser deposition. Journal of Materials Chemistry C, 2018, 6, 4854-4860.	5.5	4
44	Tuning Fe concentration in epitaxial gallium ferrite thin films for room temperature multiferroic properties. Acta Materialia, 2018, 145, 488-495.	7.9	26
45	Surface-step-terrace tuned second-order nonlinear optical coefficients of epitaxial ferroelectric $\text{BaTiO}_3$ films. Journal of Materials Chemistry C, 2018, 6, 11679-11685.	5.5	11
46	$(\text{C}_6\text{H}_5\text{CH}_2\text{NH}_2)_2\text{CuBr}_4$ : A Lead-Free, Highly Stable Two-Dimensional Perovskite for Solar Cell Applications. ACS Applied Energy Materials, 2018, 1, 2709-2716.	5.1	73
47	Study of photovoltaic performance of $\text{Sb}_2\text{S}_3/\text{CdS}$ quantum dot co-sensitized solar cells fabricated using iodine-based gel polymer electrolytes. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	6
48	Characterization of domain distributions by second harmonic generation in ferroelectrics. Npj Computational Materials, 2018, 4, .	8.7	25
49	Deterministic, Reversible, and Nonvolatile Low-Voltage Writing of Magnetic Domains in Epitaxial $\text{BaTiO}_3/\text{Fe}_3\text{O}_4$ Heterostructure. ACS Nano, 2018, 12, 9558-9567.	14.6	43
50	Organic-Inorganic Copper(II)-Based Material: A Low-Toxic, Highly Stable Light Absorber for Photovoltaic Application. Journal of Physical Chemistry Letters, 2017, 8, 1804-1809.	4.6	103
51	Epitaxial growth and magnetic properties of $\text{h-LuFeO}_3$ thin films. Journal of Materials Science, 2017, 52, 13879-13885.	3.7	5
52	Investigation of multilevel data storage in silicon-based polycrystalline ferroelectric tunnel junction. Scientific Reports, 2017, 7, 4525.	3.3	10
53	Voltage pulse controlling multilevel data ferroelectric storage memory with a nonepitaxial ultrathin film. RSC Advances, 2016, 6, 80011-80016.	3.6	2
54	Investigation of multilevel data memory using filament and polarization control. RSC Advances, 2016, 6, 81789-81793.	3.6	2

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55	A ferroelectric memristor based on the migration of oxygen vacancies. RSC Advances, 2016, 6, 54113-54118.	3.6	41
56	Enhanced room temperature electrocaloric effect in barium titanate thin films with diffuse phase transition. RSC Advances, 2014, 4, 21826.	3.6	21
57	A ferroelectric tunnel junction based on the piezoelectric effect for non-volatile nanoferroelectric devices. Journal of Materials Chemistry C, 2013, 1, 418-421.	5.5	21
58	Shape-controlled hydrothermal synthesis of ferroelectric Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> nanostructures. CrystEngComm, 2013, 15, 1397.	2.6	27
59	Size effect on the ultrathin ferroelectric film directly grown on silicon for electronic devices. RSC Advances, 2013, 3, 24362.	3.6	4
60	Role of oxygen vacancies in the origin of ferromagnetism in Mn-doped ZnO. Crystal Research and Technology, 2011, 46, 1250-1256.	1.3	8