Xiangli Zhong

List of Publications by Year
in descending order

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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	Organicâ€“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
2	(C₆H₅CH₂NH₃)₂CuBr₄: A Lead-Free, Highly Stable Two-Dimensional Perovskite for Solar Cell Applications. ACS Applied Energy Materials, 2018, 1, 2709-2716.	5.1	73
3	Superparaelectric (Ba_{0.95},Sr_{0.05})(Zr_{0.2},Ti_{0.8})O₃ Ultracapacitors. Advanced Energy Materials, 2020, 10, 2001778.	19.5	69
4	Flexible electronic synapse enabled by ferroelectric field effect transistor for robust neuromorphic computing. Applied Physics Letters, 2020, 117, .	3.3	57
5	Epitaxial array of Fe3O4 nanodots for high rate high capacity conversion type lithium ion batteries electrode with long cycling life. Nano Energy, 2020, 74, 104876.	16.0	51
6	Creating polar antivortex in PbTiO3/SrTiO3 superlattice. Nature Communications, 2021, 12, 2054.	12.8	50
7	Atomic imaging of mechanically induced topological transition of ferroelectric vortices. Nature Communications, 2020, 11, 1840.	12.8	49
8	Deterministic, Reversible, and Nonvolatile Low-Voltage Writing of Magnetic Domains in Epitaxial BaTiO₃/Fe₃O₄ Heterostructure. ACS Nano, 2018, 12, 9558-9567.	14.6	43
9	A ferroelectric memristor based on the migration of oxygen vacancies. RSC Advances, 2016, 6, 54113-54118.	3.6	41
10	Atomic-scale observations of electrical and mechanical manipulation of topological polar flux closure. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18954-18961.	7.1	41
11	Î±-In₂Se₃ Nanoflakes Modulated by Ferroelectric Polarization and Pt Nanodots for Photodetection. ACS Applied Nano Materials, 2019, 2, 4443-4450.	5.0	34
12	Highly Robust Flexible Ferroelectric Field Effect Transistors Operable at High Temperature with Lowâ€Power Consumption. Advanced Functional Materials, 2020, 30, 1906131.	14.9	32
13	Subunit cellâ€“level measurement of polarization in an individual polar vortex. Science Advances, 2019, 5, eaav4355.	10.3	31
14	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
15	High Energy Performance Ferroelectric (Ba,Sr)(Zr,Ti)O₃ Film Capacitors Integrated on Si at 400 Â°C. ACS Applied Materials & Interfaces, 2021, 13, 22717-22727.	8.0	29
16	Shape-controlled hydrothermal synthesis of ferroelectric Bi4Ti3O12 nanostructures. CrystEngComm, 2013, 15, 1397.	2.6	27
17	Î³-ray Radiation on Flexible Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 7318-7324.	5.1	27
18	Tuning Fe concentration in epitaxial gallium ferrite thin films for room temperature multiferroic properties. Acta Materialia, 2018, 145, 488-495.	7.9	26

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19	In-Plane Strain-Modulated Photoresponsivity of the Î±-In₂Se₃-Based Flexible Transistor. ACS Applied Electronic Materials, 2020, 2, 140-146.	4.3	26
20	Characterization of domain distributions by second harmonic generation in ferroelectrics. Npj Computational Materials, 2018, 4, .	8.7	25
21	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
22	Enhanced room temperature electrocaloric effect in barium titanate thin films with diffuse phase transition. RSC Advances, 2014, 4, 21826.	3.6	21
23	Resistive switching behavior in Î±-In₂Se₃ nanoflakes modulated by ferroelectric polarization and interface defects. RSC Advances, 2019, 9, 30565-30569.	3.6	21
24	Large-scale multiferroic complex oxide epitaxy with magnetically switched polarization enabled by solution processing. National Science Review, 2020, 7, 84-91.	9.5	20
25	Engineering polar vortex from topologically trivial domain architecture. Nature Communications, 2021, 12, 4620.	12.8	20
26	Probing Ultrafast Dynamics of Ferroelectrics by Timeâ€Resolved Pumpâ€Probe Spectroscopy. Advanced Science, 2021, 8, e2102488.	11.2	19
27	Hf0.5Zr0.5Oâ„‚-Based Ferroelectric Field-Effect Transistors With HfOâ„‚ Seed Layers for Radiation-Hard Nonvolatile Memory Applications. IEEE Transactions on Electron Devices, 2021, 68, 4368-4372.	3.0	18
28	Negative differential resistance effect in resistive switching devices based on h-LuFeO₃/CoFe₂O₄ heterojunctions. Physical Chemistry Chemical Physics, 2020, 22, 5819-5825.	2.8	17
29	Hierarchical micro-mesoporous carbon prepared from waste cotton textile for lithium-sulfur batteries. Ionics, 2019, 25, 4057-4066.	2.4	14
30	Hydrogen-Related Recovery Effect of AlGaN/GaN High-Electron-Mobility Transistors Irradiated by High-Fluence Protons. IEEE Transactions on Nuclear Science, 2021, 68, 118-123.	2.0	12
31	Highly Ordered SnO2 Nanopillar Array as Binder-Free Anodes for Long-Life and High-Rate Li-Ion Batteries. Nanomaterials, 2021, 11, 1307.	4.1	12
32	Surface-step-terrace tuned second-order nonlinear optical coefficients of epitaxial ferroelectric BaTiO₃ films. Journal of Materials Chemistry C, 2018, 6, 11679-11685.	5.5	11
33	Enhanced electromagnon excitations in Nd-doped BiFeO₃ nanoparticles near morphotropic phase boundaries. Physical Chemistry Chemical Physics, 2019, 21, 21381-21388.	2.8	11
34	Investigation of multilevel data storage in silicon-based polycrystalline ferroelectric tunnel junction. Scientific Reports, 2017, 7, 4525.	3.3	10
35	The total dose effect of Î³-ray induced domain evolution on Î±-In₂Se₃ nanoflakes. Physical Chemistry Chemical Physics, 2020, 22, 7160-7164.	2.8	10
36	A neutron irradiation-induced displacement damage of indium vacancies in Î±-In₂Se₃ nanoflakes. Physical Chemistry Chemical Physics, 2020, 22, 15799-15804.	2.8	9

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37	Mechanical Manipulation of Nanoâ€Twinned Ferroelectric Domain Structures for Multilevel Data Storage. Advanced Functional Materials, 2021, 31, 2011029.	14.9	9
38	Role of oxygen vacancies in the origin of ferromagnetism in Mnâ€doped ZnO. Crystal Research and Technology, 2011, 46, 1250-1256.	1.3	8
39	Theory prediction of PC3 monolayer as a promising anode material in potassium-ion batteries. Ionics, 2021, 27, 2465-2471.	2.4	7
40	Study of photovoltaic performance of Sb2S3/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
41	Effect of interfacial delamination on coating crack in thick diamond-like carbon coatings under indentation. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 524-535.	3.4	6
42	Electrically driven motion, destruction, and chirality change of polar vortices in oxide superlattices. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	6
43	Epitaxial growth and magnetic properties of h-LuFeO3 thin films. Journal of Materials Science, 2017, 52, 13879-13885.	3.7	5
44	Effects of physical properties of N-doped carbon on carbon/N-doped carbon/sulfur composite cathodes. Ionics, 2021, 27, 3271.	2.4	5
45	Proton-Induced Effect on AlGaN/GaN HEMTs After Hydrogen Treatment. IEEE Transactions on Device and Materials Reliability, 2021, 21, 297-302.	2.0	5
46	Super-flexibility in Freestanding Single-Crystal SrRuO₃ Conductive Oxide Membranes. ACS Applied Electronic Materials, 2022, 4, 2987-2992.	4.3	5
47	Size effect on the ultrathin ferroelectric film directly grown on silicon for electronic devices. RSC Advances, 2013, 3, 24362.	3.6	4
48	Self-assembling epitaxial growth of a single crystalline CoFe₂O₄ nanopillar array via dual-target pulsed laser deposition. Journal of Materials Chemistry C, 2018, 6, 4854-4860.	5.5	4
49	Realization of a Flexible Humidity Sensor Based on Î±â€In ₂ Se ₃ Nanosheets. ChemNanoMat, 2022, 8, .	2.8	4
50	Voltage pulse controlling multilevel data ferroelectric storage memory with a nonepitaxial ultrathin film. RSC Advances, 2016, 6, 80011-80016.	3.6	2
51	Investigation of multilevel data memory using filament and polarization control. RSC Advances, 2016, 6, 81789-81793.	3.6	2
52	Polar and Nonpolar Matrix Consisting of Twined Multiwalled Carbon Nanotube and High Nitrogenâ€Doped Porous Carbon Derived from Ionic Liquid for Stable Liâ€S Battery. Energy Technology, 2019, 7, 1900470.	3.8	2
53	Failure Analysis of Commercial Ferroelectric Random Access Memory for Single Event Effect. IEEE Transactions on Nuclear Science, 2022, 69, 890-899.	2.0	2
54	Significantly enhanced energy storage density and efficiency in flexible Bi3.15Nd0.85Ti3O12 thin film via periodic dielectric layers. Journal of Applied Physics, 2022, 131, .	2.5	2

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55	Ferroelectric Field Effect Transistors: Highly Robust Flexible Ferroelectric Field Effect Transistors Operable at High Temperature with Lowâ€Power Consumption (Adv. Funct. Mater. 1/2020). Advanced Functional Materials, 2020, 30, 2070005.	14.9	1
56	An Effective Strategy for Photoelectric Performance Enhancement of 2D Perovskite via Halogenating Organic Cation: A Theoretical Prediction. Physica Status Solidi (B): Basic Research, 2020, 257, 1900599.	1.5	1
57	Analysis of Ion-Induced SEFI and SEL Phenomena in 90 nm NOR Flash Memory. IEEE Transactions on Nuclear Science, 2021, 68, 2508-2515.	2.0	1
58	Prediction and experimental verification of erosion resistance of gas switch electrode materials. AIP Advances, 2021, 11, 055206.	1.3	1
59	Pore-making ionic liquid drived carbon as polar mixture for carbon/sulfur composite cathodes. Ionics, 2020, 26, 2949-2957.	2.4	0
60	Improved thermal stability of AlCrSiN coatings base on the template effect of TiAlN layer. Surface Engineering, 2022, 38, 37-43.	2.2	0