Yin-Lian Zhu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2565186/publications.pdf

Version: 2024-02-01

102	2,104	279798	265206
papers	citations	23	42
		h-index	g-index

103	103	103	2088
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thickness-Dependent Polar Domain Evolution in Strained, Ultrathin PbTiO₃ Films. ACS Applied Materials & Interfaces, 2022, 14, 9724-9733.	8.0	4
2	Direct Observation of Large-Scale Screw Dislocation Grids in Oxide Heteroepitaxies. Nano Letters, 2022, 22, 2085-2093.	9.1	5
3	Strain phase diagram and physical properties of (110)-oriented PbTiO3 thin films by phase-field simulations. Acta Materialia, 2022, 228, 117761.	7.9	8
4	Meronâ€“antimeron annihilation induced by the electric field in a polar meron lattice. Journal of Applied Physics, 2022, 131, .	2.5	4
5	Strain coupling of ferroelastic domains and misfit dislocations in [101]-oriented ferroelectric PbTiO₃ films. RSC Advances, 2022, 12, 20423-20431.	3.6	5
6	Deterministic contribution of low symmetry phases to piezoresponse in oxide ferroelectrics. Acta Materialia, 2021, 205, 116534.	7.9	12
7	Effects of anisotropic misfit strains on equilibrium phases and domain structures in (111)-oriented ferroelectric PbTiO3 films. Acta Materialia, 2021, 206, 116639.	7.9	12
8	Self-assembled three-dimensional framework of PbTiO3:Îµ-Fe2O3 nanostructures with room temperature multiferroism. Applied Surface Science, 2021, 544, 148945.	6.1	5
9	Coexisting morphotropic phase boundary and giant strain gradient in BiFeO3 films. Journal of Applied Physics, 2021, 129, 184101.	2.5	4
10	Topological polar structures in ferroelectric oxide films. Journal of Applied Physics, 2021, 129, .	2.5	9
11	Influence of flexoelectric effects on domain switching in ferroelectric films. Journal of Applied Physics, 2021, 129, .	2.5	6
12	Spinodal Decomposition-Driven Endurable Resistive Switching in Perovskite Oxides. ACS Applied Materials & Interfaces, 2021, 13, 31001-31009.	8.0	3
13	Periodic Polarization Waves in a Strained, Highly Polar Ultrathin SrTiO3. Nano Letters, 2021, 21, 6274-6281.	9.1	14
14	Atomic mapping of periodic dipole waves in ferroelectric oxide. Science Advances, 2021, 7, .	10.3	27
15	Atomic-Scale Tunable Flexoelectric Couplings in Oxide Multiferroics. Nano Letters, 2021, 21, 9601-9608.	9.1	7
16	Unveiling the pinning behavior of charged domain walls in BiFeO3 thin films via vacancy defects. Acta Materialia, 2020, 186, 68-76.	7.9	22
17	Atomic scale study of the oxygen annealing effect on piezoelectricity enhancement of (K,Na)NbO₃ nanorods. Journal of Materials Chemistry C, 2020, 8, 15830-15838.	5.5	3
18	Self-Recovery of Defective PbTiO3 Film with Enhanced Piezoelectricity by Homogenizing Annealing. Crystal Growth and Design, 2020, 20, 5967-5973.	3.0	1

#	Article	IF	Citations
19	Periodic vortex-antivortex pairs in tensile strained PbTiO3 films. Applied Physics Letters, 2020, 117, 192901.	3.3	8
20	Oxygen octahedral coupling mediated ferroelectric-antiferroelectric phase transition based on domain wall engineering. Acta Materialia, 2020, 198, 145-152.	7.9	16
21	Boundary conditions control of topological polar nanodomains in epitaxial BiFeO3 (110) multilayered films. Journal of Applied Physics, 2020, 128, 184103.	2.5	7
22	Thickness-dependent evolution of piezoresponses and a/c domains in [101]-oriented PbTiO3 ferroelectric films. Journal of Applied Physics, 2020, 128, .	2.5	11
23	Thickness Dependence of Oxygen Vacancy Ordering in Strained LaCoO_{3â€“x} Thin Films. Journal of Physical Chemistry C, 2020, 124, 12492-12501.	3.1	10
24	Polar meron lattice in strained oxide ferroelectrics. Nature Materials, 2020, 19, 881-886.	27.5	134
25	Real-time observation of phase coexistence and a/a to flux-closure domain transformation in ferroelectric films. Acta Materialia, 2020, 193, 311-317.	7.9	13
26	The effect of oxygen vacancy plate on the domain structure in BiFeO3 thin films by phase field simulations. Journal of Applied Physics, 2020, 127, .	2.5	2
27	Tuning ferroelectricity and ferromagnetism in BiFeO₃/BiMnO₃ superlattices. Nanoscale, 2020, 12, 9810-9816.	5.6	15
28	Flexoelectricity-induced retention failure in ferroelectric films. Acta Materialia, 2020, 196, 61-68.	7.9	11
29	Misfit strain-temperature phase diagram of multi-domain structures in (111)-oriented ferroelectric PbTiO3 films. Acta Materialia, 2020, 196, 539-548.	7.9	12
30	Charged domain wall modulation of resistive switching with large ON/OFF ratios in high density BiFeO3 nano-islands. Acta Materialia, 2020, 187, 12-18.	7.9	20
31	Interfacial Strain Gradients Control Nanoscale Domain Morphology in Epitaxial BiFeO₃ Multiferroic Films. Advanced Functional Materials, 2020, 30, 2000343.	14.9	26
32	Converse flexoelectricity around ferroelectric domain walls. Acta Materialia, 2020, 191, 158-165.	7.9	16
33	Crystallographic Orientation and Surface Charge-Tailored Continuous Polarization Rotation State in Epitaxially Ferroelectric Nanostructures. Journal of Physical Chemistry C, 2019, 123, 19602-19609.	3.1	3
34	Mapping gradient-driven morphological phase transition at the conductive domain walls of strained multiferroic films. Physical Review B, 2019, 100, .	3.2	21
35	Shape and Surface Charge Modulation of Topological Domains in Oxide Multiferroics. Journal of Physical Chemistry C, 2019, 123, 2557-2564.	3.1	22
36	A Coherently Strained Monoclinic [111]PbTiO₃ Film Exhibiting Zero Poisson's Ratio State. Advanced Functional Materials, 2019, 29, 1901687.	14.9	30

#	Article	IF	Citations
37	Modulation of charged a₁/a₂ domains and piezoresponses of tensile strained PbTiO₃ films by the cooling rate. RSC Advances, 2019, 9, 13981-13990.	3.6	13
38	Evolution of flux-closure domain arrays in oxide multilayers with misfit strain. Acta Materialia, 2019, 171, 176-183.	7.9	23
39	Anisotropic strain: A critical role in domain evolution in (111)- Oriented ferroelectric films. Acta Materialia, 2019, 166, 503-511.	7.9	15
40	Polarization Rotation in Ultrathin Ferroelectrics Tailored by Interfacial Oxygen Octahedral Coupling. ACS Nano, 2018, 12, 3681-3688.	14.6	23
41	Coexistence of rhombohedral and orthorhombic phases in ultrathin BiFeO3 films driven by interfacial oxygen octahedral coupling. Acta Materialia, 2018, 145, 220-226.	7.9	29
42	Misfit strain relaxations of (101)-oriented ferroelectric PbTiO₃/(La, Sr)(Al,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (Ta	2.6	7
43	Effect of transition metal (TM) doping on structural and magnetic properties in hexagonal YMn0.917TM0.083O3 systems. Heliyon, 2018, 4, e00993.	3.2	3
44	Tunability of vortex-like patterns on 180^o domain walls in ferroelectric PbTiO₃. Philosophical Magazine Letters, 2018, 98, 266-271.	1.2	1
45	Rhombohedralâ€“Orthorhombic Ferroelectric Morphotropic Phase Boundary Associated with a Polar Vortex in BiFeO₃ Films. ACS Nano, 2018, 12, 11098-11105.	14.6	57
46	Oxygen Vacancy Ordering Modulation of Magnetic Anisotropy in Strained LaCoO_{3â€“x} Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 38230-38238.	8.0	25
47	Multiple strains and polar states in PbZr0.52Ti0.48O3/PbTiO3 superlattices revealed by aberration-corrected HAADF-STEM imaging. Ultramicroscopy, 2018, 193, 84-89.	1.9	1
48	Thickness-Dependent Evolution of Piezoresponses and Stripe 90Â° Domains in (101)-Oriented Ferroelectric PbTiO₃ Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 24627-24637.	8.0	21
49	Impact of interfacial effects on ferroelectric resistance switching of Au/BiFeO₃/Nb:SrTiO₃(100) Schottky junctions. RSC Advances, 2017, 7, 22715-22721.	3.6	24
50	Local Enhancement of Polarization at PbTiO₃/BiFeO₃ Interfaces Mediated by Charge Transfer. Nano Letters, 2017, 17, 3619-3628.	9.1	56
51	Atomic mapping of structural distortions in 109Â° domain patterned BiFeO₃ thin films. Journal of Materials Research, 2017, 32, 2423-2430.	2.6	8
52	Thickness-dependent a/a domain evolution in ferroelectric PbTiO3 films. Acta Materialia, 2017, 131, 123-130.	7.9	32
53	An effect of crystal tilt on the determination of ions displacements in perovskite oxides under BF/HAADF-STEM imaging mode. Journal of Materials Research, 2017, 32, 947-956.	2.6	13
54	Chiral phase transition at 180Â° domain walls in ferroelectric PbTiO3 driven by epitaxial compressive strains. Journal of Applied Physics, 2017, 122, .	2.5	9

#	Article	IF	Citations
55	Giant Polarization Sustainability in Ultrathin Ferroelectric Films Stabilized by Charge Transfer. Advanced Materials, 2017, 29, 1703543.	21.0	42
56	Atomic Mapping of Domain Configurations in Ferroelectric Thin Films. Microscopy and Microanalysis, 2017, 23, 1614-1615.	0.4	0
57	The Interactions of Ferroelectric Domain Walls and Crystallographic Defects in the PbTiO3 Films. Microscopy and Microanalysis, 2017, 23, 1664-1665.	0.4	0
58	Atomic Level Structural Modulations at the Negatively Charged Domain Walls in BiFeO3 Films. Microscopy and Microanalysis, 2017, 23, 1666-1667.	0.4	0
59	Designing of metallic nanocrystals embedded in non-stoichiometric perovskite nanomaterial and its surface-electronic characteristics. Scientific Reports, 2017, 7, 8343.	3.3	12
60	Periodic arrays of flux-closure domains in ferroelectric thin films with oxide electrodes. Applied Physics Letters, 2017, 111, .	3.3	33
61	First-principles study of charged steps on 180Â° domain walls in ferroelectric PbTiO3. Journal of Applied Physics, 2017, 122, .	2.5	9
62	Large Scale Two-Dimensional Flux-Closure Domain Arrays in Oxide Multilayers and Their Controlled Growth. Nano Letters, 2017, 17, 7258-7266.	9.1	52
63	Controlled Growth and Atomic-Scale Mapping of Charged Heterointerfaces in PbTiO₃/BiFeO₃ Bilayers. ACS Applied Materials & Interfaces, 2017, 9, 25578-25586.	8.0	18
64	Giant linear strain gradient with extremely low elastic energy in a perovskite nanostructure array. Nature Communications, 2017, 8, 15994.	12.8	82
65	3D polarization texture of a symmetric 4-fold flux closure domain in strained ferroelectric PbTiO₃ films. Journal of Materials Research, 2017, 32, 957-967.	2.6	13
66	Phase-field modeling and electronic structural analysis of flexoelectric effect at 180Â° domain walls in ferroelectric PbTiO3. Journal of Applied Physics, 2017, 122, .	2.5	15
67	Large scale arrays of four-state vortex domains in BiFeO3 thin film. Applied Physics Letters, 2016, 109, .	3.3	22
68	Spatial Coupling of Ferroelectric Domain Walls and Crystallographic Defects in the PbTiO₃ Films. Advanced Materials Interfaces, 2016, 3, 1600342.	3.7	24
69	Misfit Strain Relaxation of Ferroelectric PbTiO3/LaAlO3 (111) Thin Film System. Scientific Reports, 2016, 6, 35172.	3.3	16
70	Ferroelectric Films: Spatial Coupling of Ferroelectric Domain Walls and Crystallographic Defects in the PbTiO₃ Films (Adv. Mater. Interfaces 15/2016). Advanced Materials Interfaces, 2016, 3, .	3.7	0
71	Atomically resolved precipitates/matrix interfaces in KTaO₃crystals. Philosophical Magazine, 2016, 96, 486-497.	1.6	3
72	On the benefit of aberration-corrected HAADF-STEM for strain determination and its application to tailoring ferroelectric domain patterns. Ultramicroscopy, 2016, 160, 57-63.	1.9	55

#	Article	IF	Citations
73	1D Modulation: Atomic Level 1D Structural Modulations at the Negatively Charged Domain Walls in BiFeO₃ Films (Adv. Mater. Interfaces 9/2015). Advanced Materials Interfaces, 2015, 2, .	3.7	0
74	Atomic mapping of Ruddlesden-Popper faults in transparent conducting BaSnO3-based thin films. Scientific Reports, 2015, 5, 16097.	3.3	42
75	Atomic Level 1D Structural Modulations at the Negatively Charged Domain Walls in BiFeO₃ Films. Advanced Materials Interfaces, 2015, 2, 1500024.	3.7	29
76	B23-O-02Atomic Level One-dimensional Structural Modulations at the Negatively Charged Domain Walls in BiFeO3 Films. Microscopy (Oxford, England), 2015, 64, i53.2-i53.	1.5	0
77	Atomic imaging of the interface between M₂₃C₆-type carbide and matrix in a long-term ageing polycrystalline Ni-based superalloy. Philosophical Magazine Letters, 2015, 95, 237-244.	1.2	21
78	The evolution of polarization inside ultrathin PbTiO₃films: a theoretical study. Philosophical Magazine, 2015, 95, 2067-2077.	1.6	2
79	Observation of a periodic array of flux-closure quadrants in strained ferroelectric PbTiO ₃ films. Science, 2015, 348, 547-551.	12.6	430
80	Origin of the Bloch-type polarization components at the 180Â° domain walls in ferroelectric PbTiO3. Journal of Applied Physics, 2014, 116, .	2.5	20
81	The Wyckoff positional order and polyhedral intergrowth in the M3B2- and M5B3-type boride precipitated in the Ni-based superalloys. Scientific Reports, 2014, 4, 7367.	3.3	33
82	Atomic-scale mapping of dipole frustration at 90Â° charged domain walls in ferroelectric PbTiO3 films. Scientific Reports, 2014, 4, 4115.	3.3	56
83	Nanostructured Nd0.45Sr0.55MnO3 films grown on SrTiO3(110). Journal of Materials Research, 2013, 28, 1692-1698.	2.6	4
84	Control of magnetic and transport properties in Nd0.45Sr0.55MnO3 films through epitaxial strain. Journal of Applied Physics, 2012, 111, 07D706.	2.5	3
85	Misfit dislocations of anisotropic magnetoresistant Nd0.45Sr0.55MnO3 thin films grown on SrTiO3 (110) substrates. Acta Materialia, 2012, 60, 5975-5983.	7.9	10
86	Microstructure of the potentially multiferroic Fe/BaTiO₃epitaxial interface. Philosophical Magazine, 2012, 92, 1733-1747.	1.6	1
87	Cu₂S nanowires and MnS/Cu₂S nanojunctions derived from Î³â€²MnS nanowires via selective cationâ€exchange reaction. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 123-128.	1.8	4
88	Structural and microstructural analyses of crystalline Er2O3 high-k films grown on Si (001) by laser molecular beam epitaxy. Acta Materialia, 2011, 59, 1644-1650.	7.9	20
89	Comparative studies on transport and magnetotransport behaviour of asâ€deposited and ex situ annealed Aâ€type antiferromagnetic Nd_{0.45}Sr_{0.55}MnO₃ films. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2558-2563.	1.8	2
90	Morphology and orientation of iron oxide precipitates in epitaxial BiFeO3thin films grown under two non-optimized oxygen pressures. Philosophical Magazine, 2010, 90, 4551-4567.	1.6	7

#	ARTICLE	IF	CITATIONS
91	Angular dependent magnetoresistance with twofold and fourfold symmetries in A-type antiferromagnetic Nd0.45Sr0.55MnO3 thin film. Applied Physics Letters, 2010, 97, .	3.3	19
92	Magnetic anisotropy and metal-insulator transition in SrRuO3 thin films at different growth temperatures. Journal of Applied Physics, 2010, 107, 113925.	2.5	21
93	Dislocations in charge-ordered Pr_{0.5}Ca_{0.5}MnO₃epitaxial thin films prepared by a two-step growth technique. Philosophical Magazine Letters, 2010, 90, 323-336.	1.2	5
94	Microstructural evolution of [PbZrxTi1â€“xO3/PbZryTi1â€“yO3]nepitaxial multilayers (x/y= 0.2/0.4,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.6	5
95	Impact of high interface density on ferroelectric and structural properties of PbZr_{0.2}Ti_{0.8}O₃/PbZr_{0.4}Ti_{0.6}O₃epitaxial multilayers. Journal Physics D: Applied Physics, 2009, 42, 085305.	2.8	11
96	Structure and properties of epitaxial ferroelectric PbZr0.4Ti0.6O3âˆ•PbZr0.6Ti0.4O3 superlattices grown on SrTiO3 (001) by pulsed laser deposition. Applied Physics Letters, 2007, 90, 072909.	3.3	37
97	Microstructural and magnetic properties of bulk La1âˆ’xPrxMnO3+Î´(xâ€‰=â€‰0.2,â€‰0.3,â€‰0.5). Philosophical Magazine Letters, 2007, 87, 75-83.	1.2	1
98	Microstructural characteristics in the BaTiO2.52 thin films showing metallic behavior. Materials Letters, 2007, 61, 1971-1973.	2.6	5
99	Misfit dislocation arrays at the interface between La0.9Sr0.1MnO3films and vicinal SrTiO3(001) substrates. Philosophical Magazine Letters, 2006, 86, 469-478.	1.2	5
100	Microstructural analyses of a highly conductive Nb-doped SrTiO film. Acta Materialia, 2005, 53, 1277-1284.	7.9	23
101	Microstructure of new colossal magnetoresistance La1â€“xTexMnO3 (x= 0.1, 0.2) thin films. Physica Status Solidi A, 2003, 199, 233-237.	1.7	2
102	Oriented domains in a thin film of La0.8Sr0.2MnO3prepared by laser molecular-beam epitaxy. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2002, 82, 1331-1343.	0.6	1