

# Lang Chen

## List of Publications by Year in descending order

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46  
papers

1,602  
citations

304368

22  
h-index

288905

40  
g-index

46  
all docs

46  
docs citations

46  
times ranked

2250  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low Symmetry Monoclinic Phases and Polarization Rotation Path Mediated by Epitaxial Strain in Multiferroic BiFeO <sub>3</sub> Thin Films. <i>Advanced Functional Materials</i> , 2011, 21, 133-138.	7.8	229
2	Flexible Quasi-Two-Dimensional CoFe <sub>2</sub> O <sub>4</sub> Epitaxial Thin Films for Continuous Strain Tuning of Magnetic Properties. <i>ACS Nano</i> , 2017, 11, 8002-8009.	7.3	111
3	Influence of oxygen pressure on the ferroelectric properties of epitaxial BiFeO <sub>3</sub> thin films by pulsed laser deposition. <i>Physical Review B</i> , 2009, 80, .	1.1	101
4	Coexistence of ferroelectric triclinic phases in highly strained BiFeO <sub>3</sub> films. <i>Physical Review B</i> , 2011, 84, .	1.1	99
5	Enhanced cooling capacities of ferroelectric materials at morphotropic phase boundaries. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	94
6	Thickness-dependent magnetism and spin-glass behaviors in compressively strained BiFeO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	73
7	Density functional theory plus U study of vacancy formations in bismuth ferrite. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	69
8	Systematic variations in structural and electronic properties of BiFeO <sub>3</sub> by A-site substitution. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	63
9	Photovoltaic property of BiFeO <sub>3</sub> thin films with 109° domains. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	56
10	Charge trapping-detrapping induced resistive switching in Ba <sub>0.7</sub> Sr <sub>0.3</sub> TiO <sub>3</sub> . <i>AIP Advances</i> , 2012, 2, .	0.6	50
11	Study of strain effect on in-plane polarization in epitaxial BiFeO <sub>3</sub> thin films using planar electrodes. <i>Physical Review B</i> , 2012, 86, .	1.1	49
12	Low symmetry monoclinic MC phase in epitaxial BiFeO <sub>3</sub> thin films on LaSrAlO <sub>4</sub> substrates. <i>Applied Physics Letters</i> , 2010, 97, 242903.	1.5	46
13	Large tensile-strain-induced monoclinic phase in BiFeO <sub>3</sub> epitaxial thin films. <i>Applied Physics Letters</i> , 2010, 97, 242903.	1.1	40
14	Origin of the uniaxial magnetic anisotropy in La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> epitaxial thin films. <i>Physical Review B</i> , 2012, 86, .	1.1	37
15	Strain-driven phase transitions and associated dielectric/piezoelectric anomalies in BiFeO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	35
16	Suppression of mixed-phase areas in highly elongated BiFeO <sub>3</sub> thin films on NdAlO <sub>3</sub> substrates. <i>Physical Review B</i> , 2012, 86, .	1.1	34
17	Coexistence of ferroelectric vortex domains and charged domain walls in epitaxial BiFeO <sub>3</sub> film on (110)O GdScO <sub>3</sub> substrate. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	33
18	Phenomenological analysis of domain width in rhombohedral BiFeO <sub>3</sub> . <i>Physical Review B</i> , 2009, 80, .	1.1	29

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19	First-principles prediction of a two dimensional electron gas at the BiFeO <sub>3</sub> /SrTiO <sub>3</sub> interface. Applied Physics Letters, 2011, 99, 062902.	1.5	28
20	Strain dependent magnetocaloric effect in La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> thin-films. AIP Advances, 2013, 3, .	0.6	27
21	Polarization switching in quasiplanar BiFeO <sub>3</sub> capacitors. Applied Physics Letters, 2010, 97, .	1.5	26
22	Charge injection at carbon nanotube-SiO <sub>2</sub> interface. Applied Physics Letters, 2008, 93, 093509.	1.5	23
23	Mechanism of polarization fatigue in BiFeO <sub>3</sub> : The role of Schottky barrier. Applied Physics Letters, 2014, 104, 012903.	1.5	23
24	Domain structure and in-plane switching in a highly strained Bi <sub>0.9</sub> Sm <sub>0.1</sub> FeO <sub>3</sub> film. Applied Physics Letters, 2011, 99, 222904.	1.5	22
25	Periodic elastic nanodomains in ultrathin tetragonal-like BiFeO <sub>3</sub> films. Physical Review B, 2013, 88, .	1.1	22
26	Strain Control of Giant Magnetic Anisotropy in Metallic Perovskite SrCoO <sub>3</sub> Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 22348-22355.	4.0	19
27	Electric Polarization Switching on an Atomically Thin Metallic Oxide. Nano Letters, 2021, 21, 144-150.	4.5	19
28	Tuning ferroelectricity and ferromagnetism in BiFeO <sub>3</sub> /BiMnO <sub>3</sub> superlattices. Nanoscale, 2020, 12, 9810-9816.	2.8	15
29	Exchange bias in flexible freestanding La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /BiFeO <sub>3</sub> membranes. Applied Physics Letters, 2020, 117, .	1.5	14
30	Influence of target composition and deposition temperature on the domain structure of BiFeO <sub>3</sub> thin films. AIP Advances, 2012, 2, .	0.6	13
31	Voltage-Controlled Oxygen Non-Stoichiometry in SrCoO <sub>3</sub> Thin Films. Chemistry of Materials, 2019, 31, 6117-6123.	3.2	13
32	Orientation dependence of electrocaloric effects in Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )-PbTiO <sub>3</sub> single crystals. AIP Advances, 2013, 3, 072118.	0.6	12
33	Domain tuning in mixed-phase BiFeO <sub>3</sub> thin films using vicinal substrates. Applied Physics Letters, 2012, 100, 202901.	1.5	11
34	A novel method of reducing melting temperatures in SnAg and SnCu solder alloys. Journal of Materials Science: Materials in Electronics, 2011, 22, 281-285.	1.1	9
35	Nanoscale phase separation in quasi-uniaxial and biaxial strained multiferroic thin films. Applied Physics Letters, 2011, 99, 132905.	1.5	9
36	Temperature-driven evolution of hierarchical nanodomain structure in tetragonal-like BiFeO <sub>3</sub> films. Applied Physics Letters, 2012, 100, .	1.5	9

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37	Investigations of Cooling Efficiencies in Solid-State Electrocaloric Device. <i>Integrated Ferroelectrics</i> , 2012, 133, 3-8.	0.3	9
38	A modified scaling law for 180° stripe domains in ferroic thin films. <i>Journal of Applied Physics</i> , 2009, 105, 061601.	1.1	8
39	Ferroelectricity and Ferromagnetism Achieved via Adjusting Dimensionality in BiFeO <sub>3</sub> /BiMnO <sub>3</sub> Superlattices. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 41315-41322.	4.0	8
40	Strain-Induced Microstructure Damage in SrCoO <sub>3</sub> Thin Films during the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 12696-12702.	2.5	5
41	Nucleation field, reversal mechanism and coercivity paradox in two-phased magnetic nanosystem. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 1249-1253.	2.0	3
42	Strong spin-lattice coupling in tetragonal-like BiFeO <sub>3</sub> films with thermal expansion anomalies. <i>Applied Physics Letters</i> , 2020, 117, 122901.	1.5	3
43	Variable supercells in layered bismuth manganite controlled by oxygen pressure. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	3
44	Equilibrium Phase Structures for BiFeO <sub>3</sub> Thin Films on LaAlO <sub>3</sub> Substrate. <i>Integrated Ferroelectrics</i> , 2012, 132, 63-66.	0.3	1
45	Enhance total transmission in stacking meta material and positive index material. , 2008, , .		0
46	Effective control of polarity in Bi <sub>0.9</sub> La <sub>0.1</sub> FeO <sub>3</sub> thin films by dopant-related internal bias. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 919-923.	0.8	0