

# Lang Chen

## List of Publications by Year in descending order

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60  
papers

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citations

304743

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197818

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all docs

60  
docs citations

60  
times ranked

4259  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perpendicular Manganite Magnetic Tunnel Junctions Induced by Interfacial Coupling. ACS Applied Materials & Interfaces, 2022, 14, 13883-13890.	8.0	5
2	Strain-Tunable Interfacial Dzyaloshinskiiâ€Moriya Interaction and Spin-Hall Topological Hall Effect in Pt/Tm <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> Heterostructures. ACS Applied Materials & Interfaces, 2022, 14, 16791-16799.	8.0	8
3	Tension-induced phase transformation and anomalous Poisson effect in violet phosphorene. Materials Today Physics, 2022, 27, 100755.	6.0	3
4	Oxygen controlled perpendicular magnetic anisotropy in LaCoO <sub>3</sub> <sup>~</sup> /La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /LaCoO <sub>3</sub> <sup>~</sup> heterostructures. Applied Physics Letters, 2022, 120, 242902.	3.3	1
5	Converting Brownmillerite to Alternate Layers of Oxygenâ€Deficient and Conductive Nanoâ€Sheets with Enhanced Thermoelectric Properties. Advanced Energy Materials, 2022, 12, .	19.5	5
6	Electric Polarization Switching on an Atomically Thin Metallic Oxide. Nano Letters, 2021, 21, 144-150.	9.1	19
7	Recent Progress on Topological Structures in Ferroic Thin Films and Heterostructures. Advanced Materials, 2021, 33, e2000857.	21.0	84
8	Revealing the Electronic Structure and Optical Properties of CuFeO <sub>2</sub> as a p-Type Oxide Semiconductor. ACS Applied Electronic Materials, 2021, 3, 1834-1841.	4.3	18
9	Tunable Negative Poissonâ€™s Ratio in Van der Waals Superlattice. Research, 2021, 2021, 1904839.	5.7	5
10	Piezoelectricity in Excess of 800 pC/N over 400 Â°C in BiScO <sub>3</sub> â€PbTiO <sub>3</sub> â€CaTiO <sub>3</sub> Ceramics. ACS Applied Materials & Interfaces, 2021, 13, 33253-33261.	8.0	19
11	Giant Bulk Photostriction and Accurate Photomechanical Actuation in Hybrid Perovskites. Advanced Optical Materials, 2021, 9, 2100837.	7.3	12
12	Ferroelectricity and Ferromagnetism Achieved via Adjusting Dimensionality in BiFeO <sub>3</sub> /BiMnO <sub>3</sub> Superlattices. ACS Applied Materials & Interfaces, 2021, 13, 41315-41322.	8.0	8
13	Highâ€Conductive Protonated Layered Oxides from H <sub>2</sub> O Vaporâ€Annealed Brownmillerites. Advanced Materials, 2021, 33, e2104623.	21.0	9
14	Strain-Induced Microstructure Damage in SrCoO <sub>3</sub> <sup>~</sup> Thin Films during the Oxygen Evolution Reaction. ACS Applied Energy Materials, 2021, 4, 12696-12702.	5.1	5
15	Superâ€Flexible Freestanding BiMnO <sub>3</sub> Membranes with Stable Ferroelectricity and Ferromagnetism. Advanced Science, 2021, 8, e2102178.	11.2	23
16	Large-scale multiferroic complex oxide epitaxy with magnetically switched polarization enabled by solution processing. National Science Review, 2020, 7, 84-91.	9.5	20
17	Giant Piezoresistance in B-Doped SiC Nanobelts with a Gauge Factor of ~1800. ACS Applied Materials & Interfaces, 2020, 12, 47848-47853.	8.0	6
18	Strong spin-lattice coupling in tetragonal-like BiFeO <sub>3</sub> films with thermal expansion anomalies. Applied Physics Letters, 2020, 117, 122901.	3.3	3

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19	Probing the electrochemical evolutions of Na <sup>+</sup> /CO <sub>2</sub> nanobatteries on Pt@NCNT cathodes using in-situ environmental TEM. <i>Energy Storage Materials</i> , 2020, 33, 88-94.	18.0	17
20	Variable supercells in layered bismuth manganite controlled by oxygen pressure. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	3
21	Exchange bias in flexible freestanding La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /BiFeO <sub>3</sub> membranes. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	14
22	Tuning ferroelectricity and ferromagnetism in BiFeO <sub>3</sub> /BiMnO <sub>3</sub> superlattices. <i>Nanoscale</i> , 2020, 12, 9810-9816.	5.6	15
23	Transition in temperature scaling behaviors and super temperature stable polarization in BiScO <sub>3</sub> / PbZrO <sub>3</sub> / PbTiO <sub>3</sub> system. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3691-3697.	3.8	4
24	Negative and near-zero Poisson's ratios in 2D graphene/MoS <sub>2</sub> and graphene/h-BN heterostructures. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4021-4029.	5.5	24
25	Recent progress on the electronic structure, defect, and doping properties of Ga <sub>2</sub> O <sub>3</sub> . <i>APL Materials</i> , 2020, 8, .	5.1	295
26	Fabrication and Interfacial Electronic Structure of Wide Bandgap NiO and Ga <sub>2</sub> O <sub>3</sub> p-n Heterojunction. <i>ACS Applied Electronic Materials</i> , 2020, 2, 456-463.	4.3	66
27	Voltage-Controlled Oxygen Non-Stoichiometry in SrCo <sub>3</sub> Thin Films. <i>Chemistry of Materials</i> , 2019, 31, 6117-6123.	6.7	13
28	Nanosecond Optically Induced Phase Transformation in Compressively Strained $\text{BiFeO}_3$ on $\text{LaAlO}_3$ . <i>Physical Review Letters</i> , 2019, 123, 045703.	7.8	16
29	Self-assembly of nickel: from nanoparticles to foils with tunable magnetic properties. <i>CrystEngComm</i> , 2019, 21, 5317-5321.	2.6	2
30	Nanoscale Morphology Control of Na-Rich Prussian Blue Cathode Materials for Sodium Ion Batteries with Good Thermal Stability. <i>ACS Applied Energy Materials</i> , 2019, 2, 8570-8579.	5.1	28
31	Versatile and Highly Efficient Controls of Reversible Topotactic Metal-Insulator Transitions through Proton Intercalation. <i>Advanced Functional Materials</i> , 2019, 29, 1907072.	14.9	28
32	Transparent, Flexible, Fatigue-Free, Optical-Read, and Nonvolatile Ferroelectric Memories. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35169-35176.	8.0	35
33	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. <i>Nature Communications</i> , 2019, 10, 3951.	12.8	43
34	A Coherently Strained Monoclinic [111]PbTiO <sub>3</sub> Film Exhibiting Zero Poisson's Ratio State. <i>Advanced Functional Materials</i> , 2019, 29, 1901687.	14.9	30
35	High-temperature multilayer actuators based on CuO added BiScO <sub>3</sub> / PbTiO <sub>3</sub> piezoceramics and Ag electrodes. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5424-5431.	3.8	17
36	Shear strain-induced anisotropic domain evolution in mixed-phase BiFeO <sub>3</sub> epitaxial films. <i>AIP Advances</i> , 2019, 9, .	1.3	1

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37	Real-Time Imaging of the Electrochemical Process in Na <sup>+</sup> O <sub>2</sub> Nanobatteries Using Pt@CNT and Pt <sub>0.8</sub> Ir <sub>0.2</sub> @CNT Air Cathodes. ACS Nano, 2019, 13, 14399-14407.	14.6	16
38	Origin of Ferroelectricity in Epitaxial Si-Doped HfO <sub>2</sub> Films. ACS Applied Materials & Interfaces, 2019, 11, 4139-4144.	8.0	48
39	Flexible Devices: A Strategy to Modulate the Bending Coupled Microwave Magnetism in Nanoscale Epitaxial Lithium Ferrite for Flexible Spintronic Devices (Adv. Sci. 12/2018). Advanced Science, 2018, 5, 1870077.	11.2	1
40	Effects of LiNbO <sub>3</sub> doping on the microstructures and electrical properties of BiScO <sub>3</sub> /PbTiO <sub>3</sub> piezoelectric system. Journal of Materials Science: Materials in Electronics, 2018, 29, 18036-18044.	2.2	10
41	Modulation of Abnormal Poisson's Ratios and Electronic Properties in Mixed-Valence Perovskite Manganite Films. ACS Applied Materials & Interfaces, 2018, 10, 18029-18035.	8.0	13
42	Strain-Enhanced Charge Transfer and Magnetism at a Manganite/Nickelate Interface. ACS Applied Materials & Interfaces, 2018, 10, 30803-30810.	8.0	16
43	Flexible, Fatigue-Free, and Large-Scale Bi <sub>3.25</sub> La <sub>0.75</sub> Ti <sub>3</sub> O <sub>12</sub> Ferroelectric Memories. ACS Applied Materials & Interfaces, 2018, 10, 21428-21433.	8.0	35
44	Strain Control of Giant Magnetic Anisotropy in Metallic Perovskite SrCoO <sub>3</sub> Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 22348-22355.	8.0	19
45	Ultrahigh Carrier Mobility Achieved in Photoresponsive Hybrid Perovskite Films via Coupling with Single-Walled Carbon Nanotubes. Advanced Materials, 2017, 29, 1602432.	21.0	106
46	Interface Engineering of Domain Structures in BiFeO <sub>3</sub> Thin Films. Nano Letters, 2017, 17, 486-493.	9.1	69
47	Origin of colossal dielectric response in (In <sub>0.1</sub> Nb <sub>0.9</sub> ) co-doped TiO <sub>2</sub> rutile ceramics: a potential electrothermal material. Scientific Reports, 2017, 7, 10144.	3.3	18
48	Molecular Dynamics of Hexamethylbenzene at Low Temperatures: Evidence of Unconventional Magnetism Based on Rotational Motion of Protons. Angewandte Chemie - International Edition, 2017, 56, 13675-13678.	13.8	9
49	Molecular Dynamics of Hexamethylbenzene at Low Temperatures: Evidence of Unconventional Magnetism Based on Rotational Motion of Protons. Angewandte Chemie, 2017, 129, 13863-13866.	2.0	1
50	Flexible Quasi-Two-Dimensional CoFe <sub>2</sub> O <sub>4</sub> Epitaxial Thin Films for Continuous Strain Tuning of Magnetic Properties. ACS Nano, 2017, 11, 8002-8009.	14.6	111
51	A giant negative electrocaloric effect in Eu-doped PbZrO <sub>3</sub> thin films. Journal of Materials Chemistry C, 2016, 4, 3375-3378.	5.5	62
52	Nanosecond Phase Transition Dynamics in Compressively Strained Epitaxial BiFeO <sub>3</sub> . Advanced Electronic Materials, 2016, 2, 1500204.	5.1	6
53	Oxygen Vacancy Induced Room-Temperature Metal-Insulator Transition in Nickelate Films and Its Potential Application in Photovoltaics. ACS Applied Materials & Interfaces, 2016, 8, 9769-9776.	8.0	103
54	Transparent Indium Tin Oxide Electrodes on Muscovite Mica for High-Temperature-Processed Flexible Optoelectronic Devices. ACS Applied Materials & Interfaces, 2016, 8, 28406-28411.	8.0	83

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55	Negative Poisson's Ratio in Modern Functional Materials. <i>Advanced Materials</i> , 2016, 28, 8079-8096.	21.0	259
56	Giant photostriction in organic-inorganic lead halide perovskites. <i>Nature Communications</i> , 2016, 7, 11193.	12.8	164
57	Effects of Interfaces on the Structure and Novel Physical Properties in Epitaxial Multiferroic BiFeO <sub>3</sub> Ultrathin Films. <i>Materials</i> , 2014, 7, 5403-5426.	2.9	8
58	Controllable parabolic-cylinder optical rogue wave. <i>Physical Review E</i> , 2014, 90, 043201.	2.1	32
59	Non-volatile memory based on the ferroelectric photovoltaic effect. <i>Nature Communications</i> , 2013, 4, 1990.	12.8	394
60	Abnormal Poisson's ratio and Linear Compressibility in Perovskite Materials. <i>Advanced Materials</i> , 2012, 24, 4170-4174.	21.0	45