

Lang Chen

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,532
citations

304743

22
h-index

197818

49
g-index

60
all docs

60
docs citations

60
times ranked

4259
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Non-volatile memory based on the ferroelectric photovoltaic effect. Nature Communications, 2013, 4, 1990. | 12.8 | 394 |
| 2 | Recent progress on the electronic structure, defect, and doping properties of Ga ₂ O ₃ . APL Materials, 2020, 8, . | 5.1 | 295 |
| 3 | Negative Poisson's Ratio in Modern Functional Materials. Advanced Materials, 2016, 28, 8079-8096. | 21.0 | 259 |
| 4 | Giant photostriction in organic-inorganic lead halide perovskites. Nature Communications, 2016, 7, 11193. | 12.8 | 164 |
| 5 | Flexible Quasi-Two-Dimensional CoFe ₂ O ₄ Epitaxial Thin Films for Continuous Strain Tuning of Magnetic Properties. ACS Nano, 2017, 11, 8002-8009. | 14.6 | 111 |
| 6 | Ultrahigh Carrier Mobility Achieved in Photoresponsive Hybrid Perovskite Films via Coupling with Single-Walled Carbon Nanotubes. Advanced Materials, 2017, 29, 1602432. | 21.0 | 106 |
| 7 | 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 |
| 8 | Recent Progress on Topological Structures in Ferroic Thin Films and Heterostructures. Advanced Materials, 2021, 33, e2000857. | 21.0 | 84 |
| 9 | 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 |
| 10 | Interface Engineering of Domain Structures in BiFeO ₃ Thin Films. Nano Letters, 2017, 17, 486-493. | 9.1 | 69 |
| 11 | Fabrication and Interfacial Electronic Structure of Wide Bandgap NiO and Ga ₂ O ₃ p-n Heterojunction. ACS Applied Electronic Materials, 2020, 2, 456-463. | 4.3 | 66 |
| 12 | A giant negative electrocaloric effect in Eu-doped PbZrO ₃ thin films. Journal of Materials Chemistry C, 2016, 4, 3375-3378. | 5.5 | 62 |
| 13 | Origin of Ferroelectricity in Epitaxial Si-Doped HfO ₂ Films. ACS Applied Materials & Interfaces, 2019, 11, 4139-4144. | 8.0 | 48 |
| 14 | Abnormal Poisson's ratio and Linear Compressibility in Perovskite Materials. Advanced Materials, 2012, 24, 4170-4174. | 21.0 | 45 |
| 15 | Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. Nature Communications, 2019, 10, 3951. | 12.8 | 43 |
| 16 | Flexible, Fatigue-Free, and Large-Scale Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ Ferroelectric Memories. ACS Applied Materials & Interfaces, 2018, 10, 21428-21433. | 8.0 | 35 |
| 17 | Transparent, Flexible, Fatigue-Free, Optical-Read, and Nonvolatile Ferroelectric Memories. ACS Applied Materials & Interfaces, 2019, 11, 35169-35176. | 8.0 | 35 |
| 18 | Controllable parabolic-cylinder optical rogue wave. Physical Review E, 2014, 90, 043201. | 2.1 | 32 |

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|----|--|------|-----------|
| 19 | A Coherently Strained Monoclinic $[111]\text{PbTiO}_3$ Film Exhibiting Zero Poisson's Ratio State. <i>Advanced Functional Materials</i> , 2019, 29, 1901687. | 14.9 | 30 |
| 20 | 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 |
| 21 | 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 |
| 22 | Negative and near-zero Poisson's ratios in 2D graphene/MoS ₂ and graphene/h-BN heterostructures. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4021-4029. | 5.5 | 24 |
| 23 | Superflexible Freestanding BiMnO ₃ Membranes with Stable Ferroelectricity and Ferromagnetism. <i>Advanced Science</i> , 2021, 8, e2102178. | 11.2 | 23 |
| 24 | 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 |
| 25 | Strain Control of Giant Magnetic Anisotropy in Metallic Perovskite SrCoO ₃ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22348-22355. | 8.0 | 19 |
| 26 | Electric Polarization Switching on an Atomically Thin Metallic Oxide. <i>Nano Letters</i> , 2021, 21, 144-150. | 9.1 | 19 |
| 27 | Piezoelectricity in Excess of 800 pC/N over 400 Å°C in BiScO ₃ -PbTiO ₃ -CaTiO ₃ Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33253-33261. | 8.0 | 19 |
| 28 | Origin of colossal dielectric response in (In _{1-x} Nb _x) co-doped TiO ₂ rutile ceramics: a potential electrothermal material. <i>Scientific Reports</i> , 2017, 7, 10144. | 3.3 | 18 |
| 29 | Revealing the Electronic Structure and Optical Properties of CuFeO ₂ as a p-Type Oxide Semiconductor. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1834-1841. | 4.3 | 18 |
| 30 | High-temperature multilayer actuators based on CuO added BiScO ₃ -PbTiO ₃ piezoceramics and Ag electrodes. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5424-5431. | 3.8 | 17 |
| 31 | Probing the electrochemical evolutions of Na-CO ₂ nanobatteries on Pt@NCNT cathodes using in-situ environmental TEM. <i>Energy Storage Materials</i> , 2020, 33, 88-94. | 18.0 | 17 |
| 32 | Strain-Enhanced Charge Transfer and Magnetism at a Manganite/Nickelate Interface. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30803-30810. | 8.0 | 16 |
| 33 | Nanoscale Epitaxially Induced Phase Transformation in Compressively Strained BiFeO_3 on LaAlO_3 . <i>Physical Review Letters</i> , 2019, 123, 045703. | 7.8 | 16 |
| 34 | Real-Time Imaging of the Electrochemical Process in Na-O ₂ Nanobatteries Using Pt@CNT and Pt _{0.8} Ir _{0.2} @CNT Air Cathodes. <i>ACS Nano</i> , 2019, 13, 14399-14407. | 14.6 | 16 |
| 35 | Tuning ferroelectricity and ferromagnetism in BiFeO ₃ /BiMnO ₃ superlattices. <i>Nanoscale</i> , 2020, 12, 9810-9816. | 5.6 | 15 |
| 36 | Exchange bias in flexible freestanding La _{0.7} Sr _{0.3} MnO ₃ /BiFeO ₃ membranes. <i>Applied Physics Letters</i> , 2020, 117, . | 3.3 | 14 |

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|----|---|------|-----------|
| 37 | 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 |
| 38 | Voltage-Controlled Oxygen Non-Stoichiometry in SrCoO ₃ Thin Films. Chemistry of Materials, 2019, 31, 6117-6123. | 6.7 | 13 |
| 39 | Giant Bulk Photostriction and Accurate Photomechanical Actuation in Hybrid Perovskites. Advanced Optical Materials, 2021, 9, 2100837. | 7.3 | 12 |
| 40 | Effects of LiNbO ₃ doping on the microstructures and electrical properties of BiScO ₃ /PbTiO ₃ piezoelectric system. Journal of Materials Science: Materials in Electronics, 2018, 29, 18036-18044. | 2.2 | 10 |
| 41 | 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 |
| 42 | High-Conductive Protonated Layered Oxides from H ₂ O Vapor-Annealed Brownmillerites. Advanced Materials, 2021, 33, e2104623. | 21.0 | 9 |
| 43 | Effects of Interfaces on the Structure and Novel Physical Properties in Epitaxial Multiferroic BiFeO ₃ Ultrathin Films. Materials, 2014, 7, 5403-5426. | 2.9 | 8 |
| 44 | Ferroelectricity and Ferromagnetism Achieved via Adjusting Dimensionality in BiFeO ₃ /BiMnO ₃ Superlattices. ACS Applied Materials & Interfaces, 2021, 13, 41315-41322. | 8.0 | 8 |
| 45 | Strain-Tunable Interfacial Dzyaloshinskii-Moriya Interaction and Spin-Hall Topological Hall Effect in Pt/Tm ₃ Fe ₅ O ₁₂ Heterostructures. ACS Applied Materials & Interfaces, 2022, 14, 16791-16799. | 8.0 | 8 |
| 46 | Nanosecond Phase Transition Dynamics in Compressively Strained Epitaxial BiFeO ₃ . Advanced Electronic Materials, 2016, 2, 1500204. | 5.1 | 6 |
| 47 | Giant Piezoresistance in B-Doped SiC Nanobelts with a Gauge Factor of ~1800. ACS Applied Materials & Interfaces, 2020, 12, 47848-47853. | 8.0 | 6 |
| 48 | Tunable Negative Poisson's Ratio in Van der Waals Superlattice. Research, 2021, 2021, 1904839. | 5.7 | 5 |
| 49 | Strain-Induced Microstructure Damage in SrCoO ₃ Thin Films during the Oxygen Evolution Reaction. ACS Applied Energy Materials, 2021, 4, 12696-12702. | 5.1 | 5 |
| 50 | Perpendicular Manganite Magnetic Tunnel Junctions Induced by Interfacial Coupling. ACS Applied Materials & Interfaces, 2022, 14, 13883-13890. | 8.0 | 5 |
| 51 | Converting Brownmillerite to Alternate Layers of Oxygen-Deficient and Conductive Nano-Sheets with Enhanced Thermoelectric Properties. Advanced Energy Materials, 2022, 12, . | 19.5 | 5 |
| 52 | Transition in temperature scaling behaviors and super temperature stable polarization in BiScO ₃ /PbZrO ₃ /PbTiO ₃ system. Journal of the American Ceramic Society, 2020, 103, 3691-3697. | 3.8 | 4 |
| 53 | Strong spin-lattice coupling in tetragonal-like BiFeO ₃ films with thermal expansion anomalies. Applied Physics Letters, 2020, 117, 122901. | 3.3 | 3 |
| 54 | Variable supercells in layered bismuth manganite controlled by oxygen pressure. Applied Physics Letters, 2020, 117, . | 3.3 | 3 |

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|----|---|------|-----------|
| 55 | Tension-induced phase transformation and anomalous Poisson effect in violet phosphorene. <i>Materials Today Physics</i> , 2022, 27, 100755. | 6.0 | 3 |
| 56 | Self-assembly of nickel: from nanoparticles to foils with tunable magnetic properties. <i>CrystEngComm</i> , 2019, 21, 5317-5321. | 2.6 | 2 |
| 57 | Molecular Dynamics of Hexamethylbenzene at Low Temperatures: Evidence of Unconventional Magnetism Based on Rotational Motion of Protons. <i>Angewandte Chemie</i> , 2017, 129, 13863-13866. | 2.0 | 1 |
| 58 | Flexible Devices: A Strategy to Modulate the Bending Coupled Microwave Magnetism in Nanoscale Epitaxial Lithium Ferrite for Flexible Spintronic Devices (<i>Adv. Sci.</i> 12/2018). <i>Advanced Science</i> , 2018, 5, 1870077. | 11.2 | 1 |
| 59 | Shear strain-induced anisotropic domain evolution in mixed-phase BiFeO ₃ epitaxial films. <i>AIP Advances</i> , 2019, 9, . | 1.3 | 1 |
| 60 | Oxygen controlled perpendicular magnetic anisotropy in LaCoO ₃ ^δ /La _{0.7} Sr _{0.3} MnO ₃ /LaCoO ₃ ^δ heterostructures. <i>Applied Physics Letters</i> , 2022, 120, 242902. | 3.3 | 1 |