

# Weiwei Li

## List of Publications by Year in descending order

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64  
papers

2,239  
citations

257101

24  
h-index

233125

45  
g-index

65  
all docs

65  
docs citations

65  
times ranked

3542  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sodium Diffuses from Glass Substrates through $P1$ Lines and Passivates Defects in Perovskite Solar Modules. Energy and Environmental Materials, 2023, 6, .	7.3	1
2	High stability of flexible perovskite transparent conductive oxide film via van der Waals heteroepitaxy. Journal of Alloys and Compounds, 2022, 890, 161897.	2.8	10
3	Modulation of the $Bi^{3+} 6s^{2+}$ Lone Pair State in Perovskites for High-Mobility $p$ -Type Oxide Semiconductors. Advanced Science, 2022, 9, e2104141.	5.6	23
4	Epitaxial (110)-oriented $La_{0.7}Sr_{0.3}MnO_3$ film directly on flexible mica substrate. Journal Physics D: Applied Physics, 2022, 55, 224002.	1.3	6
5	Dual confinement strategy based on metal-organic frameworks to synthesize $MnOx@ZrO_2$ catalysts for toluene catalytic oxidation. Fuel, 2022, 320, 123983.	3.4	11
6	Manipulating the metal-to-insulator transition and magnetic properties in manganite thin films via epitaxial strain. Physical Review B, 2022, 105, .	1.1	2
7	Emergent multiferroism with magnetodielectric coupling in $EuTiO_3$ created by a negative pressure control of strong spin-phonon coupling. Nature Communications, 2022, 13, 2364.	5.8	23
8	Direct observation of contact resistivity for monolayer TMD based junctions <i>via</i> PL spectroscopy. Nanoscale, 2022, 14, 8260-8270.	2.8	2
9	High performance, electroforming-free, thin film memristors using ionic $Na_{0.5}Bi_{0.5}TiO_3$ . Journal of Materials Chemistry C, 2021, 9, 4522-4531.	2.7	10
10	Creating Ferromagnetic Insulating $La_{0.9}Ba_{0.1}MnO_3$ Thin Films by Tuning Lateral Coherence Length. ACS Applied Materials & Interfaces, 2021, 13, 8863-8870.	4.0	3
11	Tailoring physical functionalities of complex oxides by vertically aligned nanocomposite thin-film design. MRS Bulletin, 2021, 46, 159-167.	1.7	23
12	Facilitating the Deprotonation of OH to O through $Fe^{4+}$ -Induced States in Perovskite $LaNiO_3$ Enables a Fast Oxygen Evolution Reaction. Small, 2021, 17, e2006930.	5.2	40
13	Heteroepitaxy of flexible piezoelectric $Pb(Zr_{0.53}Ti_{0.47})O_3$ sensor on inorganic mica substrate for lamb wave-based structural health monitoring. Ceramics International, 2021, 47, 13156-13163.	2.3	15
14	Self-biased magnetoelectric switching at room temperature in three-phase ferroelectric-antiferromagnetic-ferrimagnetic nanocomposites. Nature Electronics, 2021, 4, 333-341.	13.1	18
15	Tetrafluoroborate-Induced Reduction in Defect Density in Hybrid Perovskites through Halide Management. Advanced Materials, 2021, 33, e2102462.	11.1	24
16	High-Temperature and Flexible Piezoelectric Sensors for Lamb-Wave-Based Structural Health Monitoring. ACS Applied Materials & Interfaces, 2021, 13, 47764-47772.	4.0	17
17	$\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" \rangle \langle mml:msup \rangle \langle mml:mrow \rangle \langle mml:mi \rangle Ni \langle /mml:mi \rangle \langle /mml:mrow \rangle \langle mml:mrow \rangle \langle mml:mrow \rangle \langle /mml:mrow \rangle \langle /mml:math \rangle$ -induced semiconductor-to-metal transition in spinel nickel cobaltite thin films. Physical Review B, 2021, 104, .	1.1	13
18	Enhanced electric resistivity and dielectric energy storage by vacancy defect complex. Energy Storage Materials, 2021, 42, 836-844.	9.5	24

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19	Interface Engineered Room-Temperature Ferromagnetic Insulating State in Ultrathin Manganite Films. <i>Advanced Science</i> , 2020, 7, 1901606.	5.6	24
20	Efficient light-emitting diodes from mixed-dimensional perovskites on a fluoride interface. <i>Nature Electronics</i> , 2020, 3, 704-710.	13.1	143
21	Real-time in situ optical tracking of oxygen vacancy migration in memristors. <i>Nature Electronics</i> , 2020, 3, 687-693.	13.1	43
22	Defects in complex oxide thin films for electronics and energy applications: challenges and opportunities. <i>Materials Horizons</i> , 2020, 7, 2832-2859.	6.4	83
23	Lead-free relaxor thin films with huge energy density and low loss for high temperature applications. <i>Nano Energy</i> , 2020, 71, 104536.	8.2	57
24	Colloidal Synthesis and Optical Properties of Perovskite-Inspired Cesium Zirconium Halide Nanocrystals. , 2020, 2, 1644-1652.		69
25	Atomic-Scale Control of Electronic Structure and Ferromagnetic Insulating State in Perovskite Oxide Superlattices by Long-Range Tuning of $\text{BO}_6$ Octahedra. <i>Advanced Functional Materials</i> , 2020, 30, 2001984.	7.8	12
26	Evidence of Rotational Fröhlich Coupling in Polaronic Trions. <i>Physical Review Letters</i> , 2020, 125, 086803.	2.9	14
27	Origin of unexpected lattice expansion and ferromagnetism in epitaxial $\text{EuTiO}_3$ thin films. <i>Ceramics International</i> , 2020, 46, 19990-19995.	2.3	9
28	Negative-pressure enhanced ferroelectricity and piezoelectricity in lead-free $\text{BaTiO}_3$ ferroelectric nanocomposite films. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8091-8097.	2.7	11
29	Electronic Structure, Optical Properties, and Photoelectrochemical Activity of Sn-Doped $\text{Fe}_2\text{O}_3$ Thin Films. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12548-12558.	1.5	56
30	Strong performance enhancement in lead-halide perovskite solar cells through rapid, atmospheric deposition of n-type buffer layer oxides. <i>Nano Energy</i> , 2020, 75, 104946.	8.2	20
31	Rapid Vapor-Phase Deposition of High-Mobility <i>p</i> -Type Buffer Layers on Perovskite Photovoltaics for Efficient Semitransparent Devices. <i>ACS Energy Letters</i> , 2020, 5, 2456-2465.	8.8	32
32	Perovskite Transparent Conducting Oxide for the Design of a Transparent, Flexible, and Self-Powered Perovskite Photodetector. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 16462-16468.	4.0	52
33	Electronic Structure and Optoelectronic Properties of Bismuth Oxyiodide Robust against Percent-Level Iodine, Oxygen, and Bismuth-Related Surface Defects. <i>Advanced Functional Materials</i> , 2020, 30, 1909983.	7.8	40
34	Vertical Strain-Driven Antiferromagnetic to Ferromagnetic Phase Transition in $\text{EuTiO}_3$ Nanocomposite Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 8513-8521.	4.0	14
35	Fabrication and Interfacial Electronic Structure of Wide Bandgap $\text{NiO}$ and $\text{Ga}_2\text{O}_3$ <i>p-n</i> Heterojunction. <i>ACS Applied Electronic Materials</i> , 2020, 2, 456-463.	2.0	66
36	Increased activity in the oxygen evolution reaction by $\text{Fe}^{4+}$ -induced hole states in perovskite $\text{La}_{1-x}\text{Sr}_x\text{FeO}_3$ . <i>Journal of Materials Chemistry A</i> , 2020, 8, 4407-4415.	5.2	78

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37	Achieving ferromagnetic insulating properties in $\text{La}_{0.9}\text{Ba}_{0.1}\text{MnO}_3$ thin films through nanoengineering. <i>Nanoscale</i> , 2020, 12, 9255-9265.	2.8	12
38	Achieving Ohmic conduction behavior at high electric field via interface manipulation. <i>Applied Surface Science</i> , 2020, 516, 146093.	3.1	6
39	Controllable conduction and hidden phase transitions revealed via vertical strain. <i>Applied Physics Letters</i> , 2019, 114, 252901.	1.5	5
40	Tuning critical phase transition in VO <sub>2</sub> via interfacial control of normal and shear strain. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	7
41	Improving the Acidic Stability of Zeolitic Imidazolate Frameworks by Biofunctional Molecules. <i>Chem</i> , 2019, 5, 1597-1608.	5.8	148
42	Identifying and Reducing Interfacial Losses to Enhance Color-Pure Electroluminescence in Blue-Emitting Perovskite Nanoplatelet Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2019, 4, 1181-1188.	8.8	115
43	Rational approach to guest confinement inside MOF cavities for low-temperature catalysis. <i>Nature Communications</i> , 2019, 10, 1340.	5.8	100
44	Optical and electrical properties of (111)-oriented epitaxial SrVO <sub>3</sub> thin films. <i>Ceramics International</i> , 2019, 45, 11304-11308.	2.3	7
45	An Fe stabilized metallic phase of NiS <sub>2</sub> for the highly efficient oxygen evolution reaction. <i>Nanoscale</i> , 2019, 11, 23217-23225.	2.8	66
46	Tuning the Electronic Structure of NiO via Li Doping for the Fast Oxygen Evolution Reaction. <i>Chemistry of Materials</i> , 2019, 31, 419-428.	3.2	78
47	Bottom-up Formation of Carbon-Based Structures with Multilevel Hierarchy from MOF "Guest Polyhedra". <i>Journal of the American Chemical Society</i> , 2018, 140, 6130-6136.	6.6	87
48	Use of Mesoscopic Host Matrix to Induce Ferrimagnetism in Antiferromagnetic Spinel Oxide. <i>Advanced Functional Materials</i> , 2018, 28, 1706220.	7.8	10
49	Oxygen-vacancy-mediated dielectric property in perovskite $\text{Eu}_{0.5}\text{Ba}_{0.5}\text{TiO}_3$ epitaxial thin films. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	16
50	All-Oxide Nanocomposites to Yield Large, Tunable Perpendicular Exchange Bias above Room Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42593-42602.	4.0	16
51	Origin of Improved Photoelectrochemical Water Splitting in Mixed Perovskite Oxides. <i>Advanced Energy Materials</i> , 2018, 8, 1801972.	10.2	22
52	Fundamental Carrier Lifetime Exceeding 1 $\mu\text{s}$ in $\text{Cs}_2\text{AgBiBr}_6$ Double Perovskite. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800464.	1.9	173
53	Insulating-to-conducting behavior and band profile across the epitaxial interface. <i>Physical Review B</i> , 2017, 96, .		
54	Manipulating multiple order parameters via oxygen vacancies: The case of $\text{Eu}_{0.5}\text{Ba}_{0.5}\text{TiO}_3$ . <i>Physical Review B</i> , 2017, 96, .		
	$\text{Eu}_{0.5}\text{Ba}_{0.5}\text{TiO}_3$ epitaxial thin films. <i>Applied Physics Letters</i> , 2018, 112, .	1.1	15

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55	Electronic Structure and Band Alignment at the NiO and SrTiO <sub>3</sub> Heterojunctions. ACS Applied Materials & Interfaces, 2017, 9, 26549-26555.	4.0	65
56	Vertical Interface Induced Dielectric Relaxation in Nanocomposite (BaTiO <sub>3</sub> ) <sub>1-x</sub> :(Sm <sub>2</sub> O <sub>3</sub> ) <sub>x</sub> Thin Films. Scientific Reports, 2015, 5, 11335.	1.6	21
57	Manipulating redox reaction during pulsed laser deposition. Journal of Applied Physics, 2015, 118, .	1.1	5
58	Nanostructure manipulation and its influence on functionalities in self-assembled oxide thin films. Journal of Applied Physics, 2014, 116, 183904.	1.1	4
59	Manipulating leakage behavior via distribution of interfaces in oxide thin films. Applied Physics Letters, 2014, 105, 072907.	1.5	15
60	Strain dependent ultrafast carrier dynamics in EuTiO <sub>3</sub> films. Applied Physics Letters, 2014, 105, .	1.5	12
61	Vertical-Interface-Manipulated Conduction Behavior in Nanocomposite Oxide Thin Films. ACS Applied Materials & Interfaces, 2014, 6, 5356-5361.	4.0	43
62	Precise Tuning of (YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> ) <sub>1-x</sub> :(BaZrO <sub>3</sub> ) <sub>x</sub> Thin Film Nanocomposite Structures. Advanced Functional Materials, 2014, 24, 5240-5245.	7.8	49
63	Oxygen-Vacancy-Induced Antiferromagnetism to Ferromagnetism Transformation in Eu <sub>0.5</sub> Ba <sub>0.5</sub> TiO <sub>3</sub> Multiferroic Thin Films. Scientific Reports, 2013, 3, 2618.	1.6	42
64	Sodium Diffusion from P1 Lines Passivates Perovskite Solar Modules. , 0, , .		1