

# Lu You

## List of Publications by Year in descending order

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93  
papers

5,566  
citations

76326

40  
h-index

79698

73  
g-index

96  
all docs

96  
docs citations

96  
times ranked

6760  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature ferroelectricity in $\text{CuInP2S6}$ ultrathin flakes. <i>Nature Communications</i> , 2016, 7, 12357.	12.8	637
2	Non-volatile memory based on the ferroelectric photovoltaic effect. <i>Nature Communications</i> , 2013, 4, 1990.	12.8	394
3	Microscopic Origin of the Giant Ferroelectric Polarization in Tetragonal-like $\text{BiFeO}_3$ . <i>Physical Review Letters</i> , 2011, 107, 147602.	7.8	290
4	Low-Symmetry Monoclinic Phases and Polarization Rotation Path Mediated by Epitaxial Strain in Multiferroic $\text{BiFeO}_3$ Thin Films. <i>Advanced Functional Materials</i> , 2011, 21, 133-138.	14.9	229
5	Interface control of bulk ferroelectric polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9710-9715.	7.1	212
6	Giant photostriction in organic-inorganic lead halide perovskites. <i>Nature Communications</i> , 2016, 7, 11193.	12.8	164
7	Origin of giant negative piezoelectricity in a layered van der Waals ferroelectric. <i>Science Advances</i> , 2019, 5, eaav3780.	10.3	157
8	Enhancing ferroelectric photovoltaic effect by polar order engineering. <i>Science Advances</i> , 2018, 4, eaat3438.	10.3	152
9	Universal Ferroelectric Switching Dynamics of Vinylidene Fluoride-trifluoroethylene Copolymer Films. <i>Scientific Reports</i> , 2014, 4, 4772.	3.3	149
10	Van der Waals negative capacitance transistors. <i>Nature Communications</i> , 2019, 10, 3037.	12.8	144
11	Tuning Bifunctional Oxygen Electrocatalysts by Changing the Site Rare-Earth Element in Perovskite Nickelates. <i>Advanced Functional Materials</i> , 2018, 28, 1803712.	14.9	122
12	Oxygen Vacancy Induced Room-Temperature Metal-Insulator Transition in Nickelate Films and Its Potential Application in Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 9769-9776.	8.0	103
13	Influence of oxygen pressure on the ferroelectric properties of epitaxial $\text{BiFeO}_3$ films by pulsed laser deposition. <i>Physical Review B</i> , 2009, 80, .	3.2	101
14	Coexistence of ferroelectric triclinic phases in highly strained $\text{BiFeO}_3$ films. <i>Physical Review B</i> , 2011, 84, .	3.2	99
15	Van der Waals engineering of ferroelectric heterostructures for long-retention memory. <i>Nature Communications</i> , 2021, 12, 1109.	12.8	98
16	Continuously controllable photoconductance in freestanding $\text{BiFeO}_3$ by the macroscopic flexoelectric effect. <i>Nature Communications</i> , 2020, 11, 2571.	12.8	93
17	Anomalous polarization switching and permanent retention in a ferroelectric ionic conductor. <i>Materials Horizons</i> , 2020, 7, 263-274.	12.2	88
18	Ferroelastic-switching-driven large shear strain and piezoelectricity in a hybrid ferroelectric. <i>Nature Materials</i> , 2021, 20, 612-617.	27.5	87

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19	Ferroelectric-field accelerated charge transfer in 2D CuInP2S6 heterostructure for enhanced photocatalytic H2 evolution. Nano Energy, 2020, 76, 104972.	16.0	84
20	Flexible PbZr<sub>0.52</sub>Ti<sub>0.48</sub>O<sub>3</sub> Capacitors with Giant Piezoelectric Response and Dielectric Tunability. Advanced Electronic Materials, 2017, 3, 1600542.	5.1	80
21	Switchable photovoltaic response from polarization modulated interfaces in BiFeO3 thin films. Applied Physics Letters, 2014, 104, .	3.3	76
22	In-plane Ferroelectricity in Thin Flakes of Van der Waals Hybrid Perovskite. Advanced Materials, 2018, 30, e1803249.	21.0	76
23	Nanoscale domains in strained epitaxial BiFeO3 thin Films on LaSrAlO4 substrate. Applied Physics Letters, 2010, 96, 252903.	3.3	75
24	Thickness-dependent magnetism and spin-glass behaviors in compressively strained BiFeO3 thin films. Applied Physics Letters, 2011, 98, .	3.3	73
25	Characterization and Manipulation of Mixed Phase Nanodomains in Highly Strained BiFeO<sub>3</sub> Thin Films. ACS Nano, 2012, 6, 5388-5394.	14.6	72
26	Mechanism of Polarization Fatigue in BiFeO<sub>3</sub>. ACS Nano, 2012, 6, 8997-9004.	14.6	71
27	Van der Waals layered ferroelectric CuInP2S6: Physical properties and device applications. Frontiers of Physics, 2021, 16, 1.	5.0	70
28	Oxygen-driven anisotropic transport in ultra-thin manganite films. Nature Communications, 2013, 4, 2778.	12.8	68
29	Strain Effect on Oxygen Evolution Reaction Activity of Epitaxial NdNiO<sub>3</sub> Thin Films. ACS Applied Materials & Interfaces, 2019, 11, 12941-12947.	8.0	67
30	CdS sensitized 3D hierarchical TiO2/ZnO heterostructure for efficient solar energy conversion. Scientific Reports, 2014, 4, 5721.	3.3	64
31	Enhanced ferroelectric photoelectrochemical properties of polycrystalline BiFeO3 film by decorating with Ag nanoparticles. Applied Physics Letters, 2016, 108, .	3.3	64
32	General Route to ZnO Nanorod Arrays on Conducting Substrates via Galvanic-cell-based approach. Scientific Reports, 2013, 3, 2434.	3.3	57
33	2D Black Phosphorus/SrTiO<sub>3</sub>-Based Programmable Photoconductive Switch. Advanced Materials, 2016, 28, 7768-7773.	21.0	57
34	Photovoltaic property of BiFeO3 thin films with 109Å° domains. Applied Physics Letters, 2011, 99, .	3.3	56
35	Uniaxial Magnetic Anisotropy in La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> Thin Films Induced by Multiferroic BiFeO<sub>3</sub> with Striped Ferroelectric Domains. Advanced Materials, 2010, 22, 4964-4968.	21.0	52
36	Charge trapping-detrapping induced resistive switching in Ba0.7Sr0.3TiO3. AIP Advances, 2012, 2, .	1.3	50

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37	Study of strain effect on in-plane polarization in epitaxial BiFeO <sub>3</sub> thin films using planar electrodes. Physical Review B, 2012, 86, .	3.2	49
38	Flexible organic ferroelectric films with a large piezoelectric response. NPG Asia Materials, 2015, 7, e189-e189.	7.9	47
39	Enhanced Photoelectrochemical Performance in Reduced Graphene Oxide/BiFeO <sub>3</sub> Heterostructures. Small, 2017, 13, 1603457.	10.0	46
40	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. Nature Communications, 2019, 10, 3951.	12.8	43
41	Large tensile strain induced monoclinic phase in BiFeO <sub>3</sub> epitaxial thin films on a PrScO <sub>3</sub>	3.2	40
42	Competition between strain and dimensionality effects on the electronic phase transitions in NdNiO <sub>3</sub> films. Scientific Reports, 2016, 5, 18707.	3.3	38
43	Origin of the uniaxial magnetic anisotropy in LaSrMnO <sub>3</sub> MnO <sub>0.3</sub>	3.2	37
44	Quantifying thickness-dependent charge mediated magnetoelectric coupling in magnetic/dielectric thin film heterostructures. Applied Physics Letters, 2013, 103, .	3.3	35
45	Self-powered sensitive and stable UV-visible photodetector based on GdNiO <sub>3</sub> /Nb-doped SrTiO <sub>3</sub> heterojunctions. Applied Physics Letters, 2017, 110, .	3.3	35
46	A universal method for rapid and large-scale growth of layered crystals. SmartMat, 2020, 1, e1011.	10.7	33
47	Electrochemically Driven Giant Resistive Switching in Perovskite Nickelates Heterostructures. Advanced Electronic Materials, 2017, 3, 1700321.	5.1	32
48	Temperature-dependent tunneling electroresistance in Pt/BaTiO <sub>3</sub> /SrRuO <sub>3</sub> ferroelectric tunnel junctions. Applied Physics Letters, 2013, 103, .	3.3	31
49	Photovoltaic property of domain engineered epitaxial BiFeO <sub>3</sub> films. Applied Physics Letters, 2014, 105, .	3.3	31
50	Multiferroic properties of (Bi <sub>1-x</sub> Pr <sub>x</sub> )(Fe <sub>0.95</sub> Mn <sub>0.05</sub> )O <sub>3</sub> thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 990-995.	3.5	30
51	Effect of lanthanum doping on tetragonal-like BiFeO <sub>3</sub> with mixed-phase domain structures. Physical Review B, 2014, 90, .	3.2	28
52	Single-Crystal Hybrid Perovskite Platelets on Graphene: A Mixed-Dimensional Van Der Waals Heterostructure with Strong Interface Coupling. Advanced Functional Materials, 2020, 30, 1909672.	14.9	28
53	Anisotropic optical properties of rhombohedral and tetragonal thin film BiFeO <sub>3</sub>	3.2	27
54	Polarization switching in quasiplanar BiFeO <sub>3</sub> capacitors. Applied Physics Letters, 2010, 97, .	3.3	26

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55	Molecular Engineering toward Coexistence of Dielectric and Optical Switch Behavior in Hybrid Perovskite Phase Transition Material. <i>Journal of Physical Chemistry A</i> , 2018, 122, 6416-6423.	2.5	25
56	Enhanced low field magnetoresistance in nanocrystalline La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> synthesized on MgO nanowires. <i>Applied Physics Letters</i> , 2010, 96, 222501.	3.3	24
57	Superconducting gap induced barrier enhancement in a BiFeO <sub>3</sub> -based heterostructure. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	24
58	Mechanism of polarization fatigue in BiFeO <sub>3</sub> : The role of Schottky barrier. <i>Applied Physics Letters</i> , 2014, 104, 012903.	3.3	23
59	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. <i>Applied Physics Letters</i> , 2011, 99, 222904.	3.3	22
60	Band gap tuning of nickelates for photovoltaic applications. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 44LT02.	2.8	22
61	Unraveling how electronic and spin structures control macroscopic properties of manganite ultra-thin films. <i>NPG Asia Materials</i> , 2015, 7, e196-e196.	7.9	20
62	Polarization-Mediated Thermal Stability of Metal/Oxide Heterointerface. <i>Advanced Materials</i> , 2015, 27, 6934-6938.	21.0	19
63	Electrostatic Coupling in MoS <sub>2</sub> /CuInP <sub>2</sub> S <sub>6</sub> Ferroelectric vdW Heterostructures. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	17
64	Tuning Photovoltaic Performance of Perovskite Nickelates Heterostructures by Changing the A-Site Rare-Earth Element. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 16191-16197.	8.0	16
65	Influence of target composition and deposition temperature on the domain structure of BiFeO <sub>3</sub> thin films. <i>AIP Advances</i> , 2012, 2, .	1.3	13
66	Enhanced photoelectrochemical performance in BiFeO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction photocathodes with ferroelectric polarization. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	13
67	Orientation dependence of electrocaloric effects in Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )-PbTiO <sub>3</sub> single crystals. <i>AIP Advances</i> , 2013, 3, 072118.	1.3	12
68	Domain tuning in mixed-phase BiFeO <sub>3</sub> thin films using vicinal substrates. <i>Applied Physics Letters</i> , 2012, 100, 202901.	3.3	11
69	The path to flexible ferroelectrics: Approaches and progress. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 0902A3.	1.5	11
70	Enhanced Photoelectrochemical Performance by Interface Engineering in Ternary g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> /PbTiO <sub>3</sub> Films. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000185.	3.7	11
71	Properties of (K,Na)NbO <sub>3</sub> -based lead-free piezoelectric films prepared by pulsed laser deposition. <i>Thin Solid Films</i> , 2010, 518, 6777-6780.	1.8	10
72	Large magnetoresistance at high bias voltage in double-layer organic spin valves. <i>Organic Electronics</i> , 2015, 26, 314-318.	2.6	9

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73	Unusual 90° domain structure in (2/3)Bi(Zn <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> -(1/3)BiFeO <sub>3</sub> epitaxial films with giant 22% tetragonal distortion. Applied Physics Letters, 2013, 103, .	3.3	8
74	Spin Hall Magnetoresistance in CoFe <sub>2</sub> O <sub>4</sub> /Pt Films. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	8
75	Localization-driven metal-insulator transition in epitaxial hole-doped Nd <sub>1-x</sub> Sr <sub>x</sub> NiO <sub>3</sub> ultrathin films. Journal of Physics Condensed Matter, 2017, 29, 025002.	1.8	8
76	Ultrafast electron-phonon coupling and photo-induced strain in the morphotropic phase boundary of Bi <sub>x</sub> Dy <sub>1-x</sub> FeO <sub>3</sub> films. Scientific Reports, 2018, 8, 3258.	3.3	8
77	Size effect on optical and vibrational properties of van der Waals layered In <sub>4</sub> /3P <sub>2</sub> S <sub>6</sub> . APL Materials, 2022, 10, .	5.1	7
78	Nanoscale phase mixture in uniaxial strained BiFeO <sub>3</sub> (110) thin films. Journal of Applied Physics, 2015, 118, .	2.5	6
79	Solid-Ionic Memory in a van der Waals Heterostructure. ACS Nano, 2022, 16, 221-231.	14.6	6
80	Crossover between Bulk and Interface Photovoltaic Mechanisms in a Ferroelectric Vertical Heterostructure. Physical Review Applied, 2022, 17, .	3.8	6
81	Nanoscale polarization relaxation of epitaxial BiFeO <sub>3</sub> thin film. Thin Solid Films, 2010, 518, e169-e173.	1.8	5
82	Dielectric dynamics of epitaxial BiFeO <sub>3</sub> thin films. AIP Advances, 2012, 2, .	1.3	4
83	Efficient hydrothermal growth of high-performance MoS <sub>2</sub> /pyramid-Si photocathodes by surface hydrophilicity engineering. Applied Physics Letters, 2021, 118, .	3.3	4
84	Strong Optical, Electrical, and Raman in-Plane Anisotropy in Corrugated Two-Dimensional Perovskite. Journal of Physical Chemistry C, 2021, 125, 22630-22642.	3.1	4
85	Temperature controlled c axis elongated low symmetry phase BiFeO <sub>3</sub> thin film on STO substrate. AIP Advances, 2013, 3, 012110.	1.3	3
86	Self-Regulated Chemical Substitution in a Highly Strained Perovskite Oxide. Advanced Functional Materials, 2022, 32, .	14.9	3
87	Multiferroicity in manganite/titanate superlattices determined by oxygen pressure-mediated cation defects. Journal of Applied Physics, 2013, 113, 164302.	2.5	2
88	Effect of polarization rotation on the optical and photovoltaic properties of BiFeO <sub>3</sub> thin films. Journal of Physics Condensed Matter, 2021, 33, 354002.	1.8	2
89	Influence of epitaxial BiFeO <sub>3</sub> on superparamagnetic behavior of CoFeB thin film. Journal of Applied Physics, 2015, 117, 143904.	2.5	1
90	Magnetic fingerprint of interfacial coupling between CoFe and nanoscale ferroelectric domain walls. Applied Physics Letters, 2016, 109, 082906.	3.3	1

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91	Understanding improved photoelectrochemical performance in $\text{Ba}_{x}\text{Sr}_{1-x}\text{TiO}_3/\text{TiO}_2$ rod@shell nanostructures. <i>AIP Advances</i> , 2021, 11, .	1.3	1
92	Low voltage control of magnetism in $\text{BaFe}_{10.2}\text{Sc}_{1.8}\text{O}_{19}/\text{BaTiO}_3$ bilayer epitaxial thin film at temperatures up to 390 K. <i>Applied Physics Letters</i> , 2022, 120, 062401.	3.3	1
93	Copper-assisted catalyzed etching for nanotextured black silicon with enhanced photoelectric-conversion properties. <i>Optics Express</i> , 2021, 29, 20395.	3.4	0