

Lu You

List of Publications by Year in descending order

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papers

5,566
citations

87401

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90395

73
g-index

96
all docs

96
docs citations

96
times ranked

7810
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid-Ionic Memory in a van der Waals Heterostructure. ACS Nano, 2022, 16, 221-231.	7.3	6
2	Low voltage control of magnetism in BaFe _{10.2} Sc _{1.8} O ₁₉ /BaTiO ₃ bilayer epitaxial thin film at temperatures up to 390 K. Applied Physics Letters, 2022, 120, 062401.	1.5	1
3	Crossover between Bulk and Interface Photovoltaic Mechanisms in a Ferroelectric Vertical Heterostructure. Physical Review Applied, 2022, 17, .	1.5	6
4	Self-Regulated Chemical Substitution in a Highly Strained Perovskite Oxide. Advanced Functional Materials, 2022, 32, .	7.8	3
5	Electrostatic Coupling in MoS ₂ /CuInP ₂ S ₆ Ferroelectric vdW Heterostructures. Advanced Functional Materials, 2022, 32, .	7.8	17
6	Size effect on optical and vibrational properties of van der Waals layered In ₄ /3P ₂ S ₆ . APL Materials, 2022, 10, .	2.2	7
7	Van der Waals layered ferroelectric CuInP ₂ S ₆ : Physical properties and device applications. Frontiers of Physics, 2021, 16, 1.	2.4	70
8	Van der Waals engineering of ferroelectric heterostructures for long-retention memory. Nature Communications, 2021, 12, 1109.	5.8	98
9	Efficient hydrothermal growth of high-performance MoS ₂ /pyramid-Si photocathodes by surface hydrophilicity engineering. Applied Physics Letters, 2021, 118, .	1.5	4
10	Copper-assisted catalyzed etching for nanotextured black silicon with enhanced photoelectric-conversion properties. Optics Express, 2021, 29, 20395.	1.7	0
11	Effect of polarization rotation on the optical and photovoltaic properties of BiFeO ₃ thin films. Journal of Physics Condensed Matter, 2021, 33, 354002.	0.7	2
12	Understanding improved photoelectrochemical performance in Ba _x Sr _{1-x} TiO ₃ /TiO ₂ rod-shell nanostructures. AIP Advances, 2021, 11, .	0.6	1
13	Ferroelastic-switching-driven large shear strain and piezoelectricity in a hybrid ferroelectric. Nature Materials, 2021, 20, 612-617.	13.3	87
14	Strong Optical, Electrical, and Raman in-Plane Anisotropy in Corrugated Two-Dimensional Perovskite. Journal of Physical Chemistry C, 2021, 125, 22630-22642.	1.5	4
15	Anomalous polarization switching and permanent retention in a ferroelectric ionic conductor. Materials Horizons, 2020, 7, 263-274.	6.4	88
16	Enhanced photoelectrochemical performance in BiFeO ₃ /g-C ₃ N ₄ heterojunction photocathodes with ferroelectric polarization. Journal of Applied Physics, 2020, 128, .	1.1	13
17	A universal method for rapid and large-scale growth of layered crystals. SmartMat, 2020, 1, e1011.	6.4	33
18	Ferroelectric-field accelerated charge transfer in 2D CuInP ₂ S ₆ heterostructure for enhanced photocatalytic H ₂ evolution. Nano Energy, 2020, 76, 104972.	8.2	84

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19	Single-Crystal Hybrid Perovskite Platelets on Graphene: A Mixed-Dimensional Van Der Waals Heterostructure with Strong Interface Coupling. <i>Advanced Functional Materials</i> , 2020, 30, 1909672.	7.8	28
20	Enhanced Photoelectrochemical Performance by Interface Engineering in Ternary $\text{gâ€C₃N₄/TiO₂/PbTiO₃}$ Films. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000185.	1.9	11
21	Continuously controllable photoconductance in freestanding BiFeO_3 by the macroscopic flexoelectric effect. <i>Nature Communications</i> , 2020, 11, 2571.	5.8	93
22	Van der Waals negative capacitance transistors. <i>Nature Communications</i> , 2019, 10, 3037.	5.8	144
23	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. <i>Nature Communications</i> , 2019, 10, 3951.	5.8	43
24	Origin of giant negative piezoelectricity in a layered van der Waals ferroelectric. <i>Science Advances</i> , 2019, 5, eaav3780.	4.7	157
25	Strain Effect on Oxygen Evolution Reaction Activity of Epitaxial NdNiO_3 Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12941-12947.	4.0	67
26	Tuning Photovoltaic Performance of Perovskite Nickelates Heterostructures by Changing the A-Site Rare-Earth Element. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16191-16197.	4.0	16
27	Ultrafast electron-phonon coupling and photo-induced strain in the morphotropic phase boundary of $\text{Bi}_x\text{Dy}_{1-x}\text{FeO}_3$ films. <i>Scientific Reports</i> , 2018, 8, 3258.	1.6	8
28	In -Plane Ferroelectricity in Thin Flakes of Van der Waals Hybrid Perovskite. <i>Advanced Materials</i> , 2018, 30, e1803249.	11.1	76
29	The path to flexible ferroelectrics: Approaches and progress. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 0902A3.	0.8	11
30	Tuning Bifunctional Oxygen Electrocatalysts by Changing the A-Site Rare-Earth Element in Perovskite Nickelates. <i>Advanced Functional Materials</i> , 2018, 28, 1803712.	7.8	122
31	Enhancing ferroelectric photovoltaic effect by polar order engineering. <i>Science Advances</i> , 2018, 4, eaat3438.	4.7	152
32	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.	1.1	25
33	Self-powered sensitive and stable UV-visible photodetector based on $\text{GdNiO}_3/\text{Nb-doped SrTiO}_3$ heterojunctions. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	35
34	Enhanced Photoelectrochemical Performance in Reduced Graphene Oxide/ BiFeO_3 Heterostructures. <i>Small</i> , 2017, 13, 1603457.	5.2	46
35	Flexible $\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3$ Capacitors with Giant Piezoelectric Response and Dielectric Tunability. <i>Advanced Electronic Materials</i> , 2017, 3, 1600542.	2.6	80
36	Localization-driven metal-insulator transition in epitaxial hole-doped $\text{Nd}_{1-x}\text{Sr}_x\text{NiO}_3$ ultrathin films. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 025002.	0.7	8

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37	Electrochemically Driven Giant Resistive Switching in Perovskite Nickelates Heterostructures. <i>Advanced Electronic Materials</i> , 2017, 3, 1700321.	2.6	32
38	Competition between strain and dimensionality effects on the electronic phase transitions in NdNiO ₃ films. <i>Scientific Reports</i> , 2016, 5, 18707.	1.6	38
39	Enhanced ferroelectric photoelectrochemical properties of polycrystalline BiFeO ₃ film by decorating with Ag nanoparticles. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	64
40	Magnetic fingerprint of interfacial coupling between CoFe and nanoscale ferroelectric domain walls. <i>Applied Physics Letters</i> , 2016, 109, 082906.	1.5	1
41	Oxygen Vacancy Induced Room-Temperature Metal-Insulator Transition in Nickelate Films and Its Potential Application in Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9769-9776.	4.0	103
42	2D Black Phosphorus/SrTiO ₃ -Based Programmable Photoconductive Switch. <i>Advanced Materials</i> , 2016, 28, 7768-7773.	11.1	57
43	Band gap tuning of nickelates for photovoltaic applications. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 44LT02.	1.3	22
44	Giant photostriction in organic-inorganic lead halide perovskites. <i>Nature Communications</i> , 2016, 7, 11193.	5.8	164
45	Room-temperature ferroelectricity in CuInP ₂ S ₆ ultrathin flakes. <i>Nature Communications</i> , 2016, 7, 12357.	5.8	637
46	Anisotropic optical properties of rhombohedral and tetragonal thin film BiFeO_3 . <i>Physical Review B</i> , 2015, 92, .	11.1	17
47	Nanoscale phase mixture in uniaxial strained BiFeO ₃ (110) thin films. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	6
48	Polarization-Mediated Thermal Stability of Metal/Oxide Heterointerface. <i>Advanced Materials</i> , 2015, 27, 6934-6938.	11.1	19
49	Influence of epitaxial BiFeO ₃ on superparamagnetic behavior of CoFeB thin film. <i>Journal of Applied Physics</i> , 2015, 117, 143904.	1.1	1
50	Spin Hall Magnetoresistance in CoFe ₂ O ₄ /Pt Films. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	1.2	8
51	Large magnetoresistance at high bias voltage in double-layer organic spin valves. <i>Organic Electronics</i> , 2015, 26, 314-318.	1.4	9
52	Unraveling how electronic and spin structures control macroscopic properties of manganite ultra-thin films. <i>NPG Asia Materials</i> , 2015, 7, e196-e196.	3.8	20
53	Flexible organic ferroelectric films with a large piezoelectric response. <i>NPG Asia Materials</i> , 2015, 7, e189-e189.	3.8	47
54	Photovoltaic property of domain engineered epitaxial BiFeO ₃ films. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	31

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55	Switchable photovoltaic response from polarization modulated interfaces in BiFeO ₃ thin films. Applied Physics Letters, 2014, 104, .	1.5	76
56	Mechanism of polarization fatigue in BiFeO ₃ : The role of Schottky barrier. Applied Physics Letters, 2014, 104, 012903.	1.5	23
57	Effect of lanthanum doping on tetragonal-like BiFeO_3 with mixed-phase domain structures. Physical Review B, 2014, 90, .	1.1	28
58	Universal Ferroelectric Switching Dynamics of Vinylidene Fluoride-trifluoroethylene Copolymer Films. Scientific Reports, 2014, 4, 4772.	1.6	149
59	CdS sensitized 3D hierarchical TiO ₂ /ZnO heterostructure for efficient solar energy conversion. Scientific Reports, 2014, 4, 5721.	1.6	64
60	Orientation dependence of electrocaloric effects in Pb(Zn _{1/3} Nb _{2/3})-PbTiO ₃ single crystals. AIP Advances, 2013, 3, 072118.	0.6	12
61	Large tensile-strain-induced monoclinic BiFeO_3 phase in BiFeO_3 epitaxial films. Applied Physics Letters, 2013, 103, .	1.1	40
62	Origin of the uniaxial magnetic anisotropy in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ epitaxial films. Applied Physics Letters, 2013, 103, .	1.1	37
63	Oxygen-driven anisotropic transport in ultra-thin manganite films. Nature Communications, 2013, 4, 2778.	5.8	68
64	Non-volatile memory based on the ferroelectric photovoltaic effect. Nature Communications, 2013, 4, 1990.	5.8	394
65	General Route to ZnO Nanorod Arrays on Conducting Substrates via Galvanic-cell-based approach. Scientific Reports, 2013, 3, 2434.	1.6	57
66	Temperature-dependent tunneling electroresistance in Pt/BaTiO ₃ /SrRuO ₃ ferroelectric tunnel junctions. Applied Physics Letters, 2013, 103, .	1.5	31
67	Temperature controlled c axis elongated low symmetry phase BiFeO ₃ thin film on STO substrate. AIP Advances, 2013, 3, 012110.	0.6	3
68	Multiferroicity in manganite/titanate superlattices determined by oxygen pressure-mediated cation defects. Journal of Applied Physics, 2013, 113, 164302.	1.1	2
69	Quantifying thickness-dependent charge mediated magnetoelectric coupling in magnetic/dielectric thin film heterostructures. Applied Physics Letters, 2013, 103, .	1.5	35
70	Unusual 90° domain structure in (2/3)Bi(Zn _{1/2} Ti _{1/2})O ₃ -(1/3)BiFeO ₃ epitaxial films with giant 22% tetragonal distortion. Applied Physics Letters, 2013, 103, .	1.5	8
71	Charge trapping-detrapping induced resistive switching in Ba _{0.7} Sr _{0.3} TiO ₃ . AIP Advances, 2012, 2, .	0.6	50
72	Domain tuning in mixed-phase BiFeO ₃ thin films using vicinal substrates. Applied Physics Letters, 2012, 100, 202901.	1.5	11

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73	Interface control of bulk ferroelectric polarization. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9710-9715.	3.3	212
74	Characterization and Manipulation of Mixed Phase Nanodomains in Highly Strained BiFeO ₃ Thin Films. ACS Nano, 2012, 6, 5388-5394.	7.3	72
75	Influence of target composition and deposition temperature on the domain structure of BiFeO ₃ thin films. AIP Advances, 2012, 2, .	0.6	13
76	Study of strain effect on in-plane polarization in epitaxial BiFeO ₃ thin films using planar electrodes. Physical Review B, 2012, 86, .	1.1	49
77	Mechanism of Polarization Fatigue in BiFeO ₃ . ACS Nano, 2012, 6, 8997-9004.	7.3	71
78	Dielectric dynamics of epitaxial BiFeO ₃ thin films. AIP Advances, 2012, 2, .	0.6	4
79	Coexistence of ferroelectric triclinic phases in highly strained BiFeO ₃ films. Physical Review B, 2011, 84, .	1.1	99
80	Microscopic Origin of the Giant Ferroelectric Polarization in Tetragonal-like BiFeO ₃ . Physical Review Letters, 2011, 107, 147602.	2.9	290
81	Low-Symmetry Monoclinic Phases and Polarization Rotation Path Mediated by Epitaxial Strain in Multiferroic BiFeO ₃ Thin Films. Advanced Functional Materials, 2011, 21, 133-138.	7.8	229
82	Multiferroic properties of (Bi _{1-x} Prx)(Fe _{0.95} Mn _{0.05})O ₃ thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 990-995.	1.7	30
83	Thickness-dependent magnetism and spin-glass behaviors in compressively strained BiFeO ₃ thin films. Applied Physics Letters, 2011, 98, .	1.5	73
84	Photovoltaic property of BiFeO ₃ thin films with 109° domains. Applied Physics Letters, 2011, 99, .	1.5	56
85	Domain structure and in-plane switching in a highly strained Bi _{0.9} Sm _{0.1} FeO ₃ film. Applied Physics Letters, 2011, 99, 222904.	1.5	22
86	Enhanced low field magnetoresistance in nanocrystalline La _{0.7} Sr _{0.3} MnO ₃ synthesized on MgO nanowires. Applied Physics Letters, 2010, 96, 222501.	1.5	24
87	Uniaxial Magnetic Anisotropy in La _{0.7} Sr _{0.3} MnO ₃ Thin Films Induced by Multiferroic BiFeO ₃ with Striped Ferroelectric Domains. Advanced Materials, 2010, 22, 4964-4968.	11.1	52
88	Nanoscale polarization relaxation of epitaxial BiFeO ₃ thin film. Thin Solid Films, 2010, 518, e169-e173.	0.8	5
89	Properties of (K,Na)NbO ₃ -based lead-free piezoelectric films prepared by pulsed laser deposition. Thin Solid Films, 2010, 518, 6777-6780.	0.8	10
90	Nanoscale domains in strained epitaxial BiFeO ₃ thin Films on LaSrAlO ₄ substrate. Applied Physics Letters, 2010, 96, 252903.	1.5	75

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91	Polarization switching in quasiplanar BiFeO ₃ capacitors. Applied Physics Letters, 2010, 97, .	1.5	26
92	Superconducting gap induced barrier enhancement in a BiFeO ₃ -based heterostructure. Applied Physics Letters, 2010, 97, .	1.5	24
93	Influence of oxygen pressure on the ferroelectric properties of epitaxial BiFeO_3 films by pulsed laser deposition. Physical Review B, 2009, 80, .	1.1	101