Jiang-Yu Li

List of Publications by Year
in descending order

285	15,252	22146	23530
papers	citations	59 h-index	111 g-index

286	286	286	15407
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High Energy Density Nanocomposites Based on Surface-Modified BaTiO₃ and a Ferroelectric Polymer. ACS Nano, 2009, 3, 2581-2592.	14.6	758
2	An organic-inorganic perovskite ferroelectric with large piezoelectric response. Science, 2017, 357, 306-309.	12.6	744
3	Diisopropylammonium Bromide Is a High-Temperature Molecular Ferroelectric Crystal. Science, 2013, 339, 425-428.	12.6	703
4	Electromechanical response of ionic polymer-metal composites. Journal of Applied Physics, 2000, 87, 3321-3331.	2.5	595
5	Domain switching in polycrystalline ferroelectric ceramics. Nature Materials, 2005, 4, 776-781.	27.5	373
6	Micromechanics of Magnetoelectroelastic Composite Materials: Average Fields and Effective Behavior. Journal of Intelligent Material Systems and Structures, 1998, 9, 404-416.	2.5	328
7	Magnetoelectroelastic multi-inclusion and inhomogeneity problems and their applications in composite materials. International Journal of Engineering Science, 2000, 38, 1993-2011.	5.0	321
8	Domain Dynamics During Ferroelectric Switching. Science, 2011, 334, 968-971.	12.6	320
9	Super-elastic ferroelectric single-crystal membrane with continuous electric dipole rotation. Science, 2019, 366, 475-479.	12.6	272
10	Nonvolatile ferroelectric domain wall memory. Science Advances, 2017, 3, e1700512.	10.3	269
11	Electric energy density of dielectric nanocomposites. Applied Physics Letters, 2007, 90, 132901.	3.3	262
12	Anomalous piezoelectricity in two-dimensional graphene nitride nanosheets. Nature Communications, 2014, 5, 4284.	12.8	228
13	Comparison of the effective conductivity between composites reinforced by graphene nanosheets and carbon nanotubes. Applied Physics Letters, 2008, 92, .	3.3	218
14	Stretchable Ferroelectric Nanoribbons with Wavy Configurations on Elastomeric Substrates. ACS Nano, 2011, 5, 3326-3332.	14.6	188
15	Three-dimensional piezoelectric fibrous scaffolds selectively promote mesenchymal stem cell differentiation. Biomaterials, 2017, 149, 51-62.	11.4	178
16	Mesoporous vanadium pentoxide nanofibers with significantly enhanced Li-ion storage properties by electrospinning. Energy and Environmental Science, 2011, 4, 858-861.	30.8	175
17	Atomic scale insights into structure instability and decomposition pathway of methylammonium lead iodide perovskite. Nature Communications, 2018, 9, 4807.	12.8	161
18	CoOâ€“carbon nanofiber networks prepared by electrospinning as binder-free anode materials for lithium-ion batteries with enhanced properties. Nanoscale, 2013, 5, 12342.	5.6	149

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19	From One to Two: In Situ Construction of an Ultrathin 2D-2D Closely Bonded Heterojunction from a Single-Phase Monolayer Nanosheet. Journal of the American Chemical Society, 2019, 141, 19715-19727.	13.7	148
20	Lamellar MoSe₂nanosheets embedded with MoO₂nanoparticles: novel hybrid nanostructures promoted excellent performances for lithium ion batteries. Nanoscale, 2016, 8, 17902-17910.	5.6	143
21	X-ray diffraction measurement of residual stress in PZT thin films prepared by pulsed laser deposition. Acta Materialia, 2004, 52, 3313-3322.	7.9	138
22	Biological Ferroelectricity Uncovered in Aortic Walls by Piezoresponse Force Microscopy. Physical Review Letters, 2012, 108, 078103.	7.8	138
23	Multiferroic CoFe2O4â€“Pb(Zr0.52Ti0.48)O3 core-shell nanofibers and their magnetoelectric coupling. Nanoscale, 2011, 3, 3152.	5.6	133
24	Electronic structures and thermoelectric properties of layered BiCuOCh oxychalcogenides (Ch = S,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	10.3	128
25	Efficient and Stable Inverted Perovskite Solar Cells Incorporating Secondary Amines. Advanced Materials, 2019, 31, e1903559.	21.0	128
26	Exchange Coupling in P(VDF-TrFE) Copolymer Based All-Organic Composites with Giant Electrostriction. Physical Review Letters, 2003, 90, 217601.	7.8	126
27	Design of coherent anode materials with 0D Ni₃S₂nanoparticles self-assembled on 3D interconnected carbon networks for fast and reversible sodium storage. Journal of Materials Chemistry A, 2017, 5, 7394-7402.	10.3	125
28	High-density array of ferroelectric nanodots with robust and reversibly switchable topological domain states. Science Advances, 2017, 3, e1700919.	10.3	125
29	Suppressing Defectsâ€Induced Nonradiative Recombination for Efficient Perovskite Solar Cells through Green Antisolvent Engineering. Advanced Materials, 2020, 32, e2003965.	21.0	123
30	Mechanisms of electromechanical coupling in strain based scanning probe microscopy. Applied Physics Letters, 2014, 104, .	3.3	121
31	Titanium alkoxide induced BiOBrâ€“Bi2WO6 mesoporous nanosheet composites with much enhanced photocatalytic activity. Journal of Materials Chemistry A, 2013, 1, 7949.	10.3	113
32	Micromechanical analysis of ionic clustering in Nafion perfluorinated membrane. Mechanics of Materials, 2000, 32, 303-314.	3.2	110
33	Enhanced electromechanical properties in all-polymer percolative composites. Applied Physics Letters, 2004, 84, 3124-3126.	3.3	103
34	A Molecular Ferroelectric Thin Film of Imidazolium Perchlorate That Shows Superior Electromechanical Coupling. Angewandte Chemie - International Edition, 2014, 53, 5064-5068.	13.8	103
35	Strain-based scanning probe microscopies for functional materials, biological structures, and electrochemical systems. Journal of Materiomics, 2015, 1, 3-21.	5.7	100
36	Nanocrystalline multiferroic BiFeO3 ultrafine fibers by sol-gel based electrospinning. Applied Physics Letters, 2008, 93, .	3.3	94

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37	On ferroelectric crystals with engineered domain configurations. Journal of the Mechanics and Physics of Solids, 2004, 52, 1719-1742.	4.8	91
38	Rapid Nanoimprinting and Excellent Piezoresponse of Polymeric Ferroelectric Nanostructures. ACS Nano, 2010, 4, 83-90.	14.6	91
39	Three dimensional architecture of carbon wrapped multilayer Na₃V₂O₂(PO₄)₂F nanocubes embedded in graphene for improved sodium ion batteries. Journal of Materials Chemistry A, 2015, 3, 17563-17568.	10.3	91
40	Mesoporous carbon nanofibers with a high surface area electrospun from thermoplastic polyvinylpyrrolidone. Nanoscale, 2012, 4, 7199.	5.6	87
41	Molecular ferroelectrics: where electronics meet biology. Physical Chemistry Chemical Physics, 2013, 15, 20786.	2.8	86
42	Photo-induced ferroelectric switching in perovskite CH₃NH₃PbI₃films. Nanoscale, 2017, 9, 3806-3817.	5.6	86
43	The effective electroelastic moduli of textured piezoelectric polycrystalline aggregates. Journal of the Mechanics and Physics of Solids, 2000, 48, 529-552.	4.8	85
44	High resolution quantitative piezoresponse force microscopy of BiFeO₃nanofibers with dramatically enhanced sensitivity. Nanoscale, 2012, 4, 408-413.	5.6	82
45	Nanocrystalline Thermoelectric Ca₃Co₄O₉ Ceramics by Solâ˜Gel Based Electrospinning and Spark Plasma Sintering. Journal of Physical Chemistry C, 2010, 114, 10061-10065.	3.1	80
46	The effective magnetoelectric coefficients of polycrystalline multiferroic composites. Acta Materialia, 2005, 53, 4135-4142.	7.9	78
47	The effective magnetoelectroelastic moduli of matrix-based multiferroic composites. Journal of Applied Physics, 2006, 99, 043905.	2.5	76
48	Nanoscale Control of Phase Variants in Strain-Engineered BiFeO₃. Nano Letters, 2011, 11, 3346-3354.	9.1	76
49	Ferroic domains regulate photocurrent in single-crystalline CH3NH3PbI3 films self-grown on FTO/TiO2 substrate. Npj Quantum Materials, 2018, 3, .	5.2	76
50	Nanoscale Insights into Photovoltaic Hysteresis in Tripleâ€Cation Mixedâ€Halide Perovskite: Resolving the Role of Polarization and Ionic Migration. Advanced Materials, 2019, 31, e1902870.	21.0	73
51	Multiferroic CoFe2O4â€“Pb(Zr0.52Ti0.48)O3 nanofibers by electrospinning. Applied Physics Letters, 2008, 92, .	3.3	72
52	Phononic-Crystal-Based Acoustic Sieve for Tunable Manipulations of Particles by a Highly Localized Radiation Force. Physical Review Applied, 2014, 1, .	3.8	71
53	Colossal dielectric and electromechanical responses in self-assembled polymeric nanocomposites. Applied Physics Letters, 2005, 87, 182901.	3.3	70
54	Single crystalline CH3NH3PbI3 self-grown on FTO/TiO2 substrate for high efficiency perovskite solar cells. Science Bulletin, 2017, 62, 1173-1176.	9.0	69

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55	Ferroelectric switching of elastin. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2780-6.	7.1	66
56	Highly flexible, robust, stable and high efficiency perovskite solar cells enabled by van der Waals epitaxy on mica substrate. Nano Energy, 2019, 60, 476-484.	16.0	66
57	Enhancement of Local Piezoresponse in Polymer Ferroelectrics via Nanoscale Control of Microstructure. ACS Nano, 2015, 9, 1809-1819.	14.6	65
58	Two-Dimensional Problem of a Crack in Thermoelectric Materials. Journal of Thermal Stresses, 2015, 38, 325-337.	2.0	64
59	Nano-indentation fracture test of Pb(Zr0.52Ti0.48)O3 ferroelectric thin films. Acta Materialia, 2003, 51, 3985-3997.	7.9	61
60	An artificial intelligence atomic force microscope enabled by machine learning. Nanoscale, 2018, 10, 21320-21326.	5.6	61
61	Mapping the elastic properties of two-dimensional MoS2 via bimodal atomic force microscopy and finite element simulation. Npj Computational Materials, 2018, 4, .	8.7	61
62	Electronic structure and thermoelectric properties of half-Heusler Zr0.5Hf0.5NiSn by first-principles calculations. Journal of Applied Physics, 2013, 113, .	2.5	60
63	Interaction of O vacancies and domain structures in single crystal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Ba</mml:mi><mml:mi mathvariant="normal">Ti</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>: Two-dimensional ferroelectric model. Physical Review B, 2008, 77, .	3.2	58
64	Glucose Suppresses Biological Ferroelectricity in Aortic Elastin. Physical Review Letters, 2013, 110, 168101.	7.8	58
65	On micromechanics approximation for the effective thermoelastic moduli of multi-phase composite materials. Mechanics of Materials, 1999, 31, 149-159.	3.2	57
66	Microimprinting and ferroelectric properties of poly(vinylidene fluoride-trifluoroethylene) copolymer films. Applied Physics Letters, 2007, 91, 172906.	3.3	57
67	Flexible electronic synapse enabled by ferroelectric field effect transistor for robust neuromorphic computing. Applied Physics Letters, 2020, 117, .	3.3	57
68	Direct Observations of Retention Failure in Ferroelectric Memories. Advanced Materials, 2012, 24, 1106-1110.	21.0	56
69	Nanotube enhanced carbon grids as top electrodes for fully printable mesoscopic semitransparent perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 10374-10379.	10.3	55
70	Delineating local electromigration for nanoscale probing of lithium ion intercalation and extraction by electrochemical strain microscopy. Applied Physics Letters, 2012, 101, 063901.	3.3	54
71	First-principles study of thermoelectric and lattice vibrational properties of chalcopyrite CuGaTe2. Journal of Alloys and Compounds, 2013, 570, 150-155.	5.5	53
72	Large Scale Two-Dimensional Flux-Closure Domain Arrays in Oxide Multilayers and Their Controlled Growth. Nano Letters, 2017, 17, 7258-7266.	9.1	52

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73	Thermoelastic behavior of composites with functionally graded interphase: a multi-inclusion model. International Journal of Solids and Structures, 2000, 37, 5579-5597.	2.7	51
74	Phase-field simulation of magnetoelastic couplings in ferromagnetic shape memory alloys. Acta Materialia, 2011, 59, 2648-2655.	7.9	51
75	Nonlinear asymptotic homogenization and the effective behavior of layered thermoelectric composites. Journal of the Mechanics and Physics of Solids, 2013, 61, 1768-1783.	4.8	51
76	Epitaxial array of Fe3O4 nanodots for high rate high capacity conversion type lithium ion batteries electrode with long cycling life. Nano Energy, 2020, 74, 104876.	16.0	51
77	Creating polar antivortex in PbTiO3/SrTiO3 superlattice. Nature Communications, 2021, 12, 2054.	12.8	50
78	The enhanced and optimal piezoelectric coefficients in single crystalline barium titanate with engineered domain configurations. Applied Physics Letters, 2003, 83, 1193-1195.	3.3	47
79	Austeniteâ€“martensite interface in shape memory alloys. Applied Physics Letters, 2010, 96, .	3.3	45
80	On the effective thermoelectric properties of layered heterogeneous medium. Journal of Applied Physics, 2012, 111, .	2.5	45
81	Oxygen-vacancy-induced memory effect and large recoverable strain in a barium titanate single crystal. Physical Review B, 2010, 82, .	3.2	43
82	Touching is believing: interrogating halide perovskite solar cells at the nanoscale via scanning probe microscopy. Npj Quantum Materials, 2017, 2, .	5.2	43
83	Piezoelectricity of atomically thin WSe2 via laterally excited scanning probe microscopy. Nano Energy, 2018, 52, 117-122.	16.0	43
84	Deterministic, Reversible, and Nonvolatile Low-Voltage Writing of Magnetic Domains in Epitaxial BaTiO₃/Fe₃O₄ Heterostructure. ACS Nano, 2018, 12, 9558-9567.	14.6	43
85	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. Nature Communications, 2019, 10, 3951.	12.8	43
86	Constrained modeling of domain patterns in rhombohedral ferroelectrics. Applied Physics Letters, 2008, 92, 052909.	3.3	42
87	Controlling magnetoelectric coupling by nanoscale phase transformation in strain engineered bismuth ferrite. Nanoscale, 2012, 4, 3175.	5.6	42
88	Quadratic electromechanical strain in silicon investigated by scanning probe microscopy. Journal of Applied Physics, 2018, 123, .	2.5	42
89	General Decomposition Pathway of Organicâ€“Inorganic Hybrid Perovskites through an Intermediate Superstructure and its Suppression Mechanism. Advanced Materials, 2020, 32, e2001107.	21.0	42
90	Highly Flexible and Twistable Freestanding Single Crystalline Magnetite Film with Robust Magnetism. Advanced Functional Materials, 2020, 30, 2003495.	14.9	42

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91	Imaging space charge regions in Sm-doped ceria using electrochemical strain microscopy. Applied Physics Letters, 2014, 105, .	3.3	41
92	Nanoscale coaxial focused electrohydrodynamic jet printing. Nanoscale, 2018, 10, 9867-9879.	5.6	41
93	Two-dimensional analysis of magnetoelectric effects in multiferroic laminated plates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1046-1053.	3.0	40
94	Misfit strain modulated phase structures of epitaxial Pb(Zr1â˜'xTix)O3 thin films: The effect of substrate and film thickness. Mechanics of Materials, 2010, 42, 816-826.	3.2	40
95	Magnetoelectric Green's functions and their application to the inclusion and inhomogeneity problems. International Journal of Solids and Structures, 2002, 39, 4201-4213.	2.7	39
96	Shifting of the morphotropic phase boundary and superior piezoelectric response in Nb-doped Pb(Zr,Ti)O3 epitaxial thin films. Acta Materialia, 2009, 57, 4288-4295.	7.9	39
97	Nanocrystalline Structure and Thermoelectric Properties of Electrospun NaCo₂O₄ Nanofibers. Journal of Physical Chemistry C, 2010, 114, 22038-22043.	3.1	39
98	Morphotropic Phase Elasticity of Strained BiFeO₃. Advanced Materials Interfaces, 2016, 3, 1600033.	3.7	39
99	Electrospinning and multiferroic properties of NiFe2O4â€“Pb(Zr0.52Ti0.48)O3 composite nanofibers. Journal of Applied Physics, 2008, 104, .	2.5	38
100	Giant Enhancement of Ferroelectric Retention in BiFeO₃ Mixedâ€Phase Boundary. Advanced Materials, 2014, 26, 6335-6340.	21.0	37
101	Efficiency enhancement of ZnO-based dye-sensitized solar cell by hollow TiO2 nanofibers. Journal of Alloys and Compounds, 2014, 611, 19-23.	5.5	37
102	Dramatically enhanced effective electrostriction in ferroelectric polymeric composites. Applied Physics Letters, 2002, 81, 1860-1862.	3.3	36
103	The magnetoelectric effects in multiferroic composite nanofibers. Applied Physics Letters, 2009, 94, .	3.3	36
104	Strain-engineered orthorhombic-rhombohedral phase boundary in epitaxial bismuth ferrite films. Journal of Applied Physics, 2013, 113, .	2.5	36
105	Highly Reversible Sodium-ion Storage in NaTi2(PO4)3/C Composite Nanofibers. Electrochimica Acta, 2017, 252, 523-531.	5.2	36
106	Atomic-scale imaging of CH3NH3PbI3 structure and its decomposition pathway. Nature Communications, 2021, 12, 5516.	12.8	36
107	Uniqueness and Reciprocity Theorems for Linear Thermo-Electro-Magneto-Elasticity. Quarterly Journal of Mechanics and Applied Mathematics, 2003, 56, 35-43.	1.3	34
108	Facile surface modification of CH₃NH₃PbI₃ films leading to simultaneously improved efficiency and stability of inverted perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 6255-6264.	10.3	34

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109	Transmission electron microscopy of organic-inorganic hybrid perovskites: myths and truths. Science Bulletin, 2020, 65, 1643-1649.	9.0	34
110	Viscoelectroelastic behavior of heterogeneous piezoelectric solids. Journal of Applied Physics, 2001, 89, 2893-2903.	2.5	33
111	Phase structure of epitaxial Pb(Zr,Ti)O3 thin films on Nb-doped SrTiO3 substrates. Applied Physics Letters, 2007, 91, .	3.3	33
112	Shear-driven morphotropic phase boundary in epitaxial ferroelectric thin films. Physical Review B, 2011, 84, .	3.2	33
113	High pressure effect on the electronic structure and thermoelectric properties of BiCuSeO: first-principles calculations. RSC Advances, 2014, 4, 54819-54825.	3.6	33
114	Magnetoelastic domains and magnetic field-induced strains in ferromagnetic shape memory alloys by phase-field simulation. Applied Physics Letters, 2008, 92, .	3.3	32
115	The magnetoelectric domains and cross-field switching in multiferroic BiFeO3. Applied Physics Letters, 2008, 93, 192506.	3.3	32
116	Highly Robust Flexible Ferroelectric Field Effect Transistors Operable at High Temperature with Lowâ€Power Consumption. Advanced Functional Materials, 2020, 30, 1906131.	14.9	32
117	Micromechanics of ferroelectric polymer-based electrostrictive composites. Journal of the Mechanics and Physics of Solids, 2004, 52, 591-615.	4.8	31
118	Fabrication of TiO₂ Aggregates by Electrospraying and Their Application in Dye-Sensitized Solar Cells. Nanoscience and Nanotechnology Letters, 2011, 3, 690-696.	0.4	31
119	Effect of strain on thermoelectric properties of SrTiO3: First-principles calculations. Chemical Physics Letters, 2013, 586, 159-163.	2.6	31
120	Nanoporous carbon leading to the high performance of a Na₃V₂O₂(PO₄)₂F@carbon/graphene cathode in a sodium ion battery. CrystEngComm, 2017, 19, 4287-4293.	2.6	31
121	A general strategy to prepare high-quality inorganic charge-transporting layers for efficient and stable all-layer-inorganic perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 18603-18611.	10.3	31
122	Continuum theory and phase-field simulation of magnetoelectric effects in multiferroic bismuth ferrite. Journal of the Mechanics and Physics of Solids, 2010, 58, 1613-1627.	4.8	30
123	Is thermoelectric conversion efficiency of a composite bounded by its constituents?. Applied Physics Letters, 2013, 102, 053905.	3.3	30
124	A Tailored Nickel Oxide Holeâ€Transporting Layer to Improve the Longâ€Term Thermal Stability of Inorganic Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900346.	5.8	30
125	High fidelity direct measurement of local electrocaloric effect by scanning thermal microscopy. Nano Energy, 2020, 67, 104203.	16.0	30
126	Electromechanical analysis of direct and converse flexoelectric effects under a scanning probe tip. Journal of the Mechanics and Physics of Solids, 2020, 142, 104020.	4.8	30

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127	The effective pyroelectric and thermal expansion coefficients of ferroelectric ceramics. Mechanics of Materials, 2004, 36, 949-958.	3.2	29
128	Magnetization rotation and rearrangement of martensite variants in ferromagnetic shape memory alloys. Applied Physics Letters, 2007, 90, 172504.	3.3	29
129	Unraveling the origins of electromechanical response in mixed-phase bismuth ferrite. Physical Review B, 2013, 88, .	3.2	29
130	Synthesis, microstructures, and magnetoelectric couplings of electrospun multiferroic nanofibers. Frontiers of Physics, 2012, 7, 399-407.	5.0	28
131	Ultrafine LiCoO2 powders derived from electrospun nanofibers for Li-ion batteries. Journal of Physics and Chemistry of Solids, 2013, 74, 322-327.	4.0	28
132	The electromechanics of piezoresponse force microscopy for a transversely isotropic piezoelectric medium. Acta Materialia, 2013, 61, 7020-7033.	7.9	28
133	Scanning thermo-ionic microscopy for probing local electrochemistry at the nanoscale. Journal of Applied Physics, 2016, 119, .	2.5	28
134	The effect of biaxial texture on the effective electromechanical constants of polycrystalline barium titanate and lead titanate thin films. Acta Materialia, 2006, 54, 3657-3663.	7.9	27
135	Unconventional phase field simulations of transforming materials with evolving microstructures. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 915-927.	3.4	27
136	Elastic properties and intrinsic strength of two-dimensional InSe flakes. Nanotechnology, 2019, 30, 335703.	2.6	27
137	Mapping intrinsic electromechanical responses at the nanoscale via sequential excitation scanning probe microscopy empowered by deep data. National Science Review, 2019, 6, 55-63.	9.5	27
138	Piezoelectricity of lead-free (K, Na)NbO₃ nanoscale single crystals. Journal of Materials Chemistry C, 2014, 2, 9091-9098.	5.5	26
139	Tuning Fe concentration in epitaxial gallium ferrite thin films for room temperature multiferroic properties. Acta Materialia, 2018, 145, 488-495.	7.9	26
140	Quantitative nanoscale mapping of three-phase thermal conductivities in filled skutterudites via scanning thermal microscopy. National Science Review, 2018, 5, 59-69.	9.5	26
141	One-dimensional equations for piezoelectromagnetic beams and magnetoelectric effects in fibers. Smart Materials and Structures, 2009, 18, 095026.	3.5	25
142	Space charges and size effects in semiconducting ferroelectric BaTiO3/SrTiO3 superlattices. Applied Physics Letters, 2010, 97, 042905.	3.3	25
143	The effects of dual doping on the thermoelectric properties of Ca3â^'xMxCo4â^'yCuyO9 (M=Na, La). Journal of Alloys and Compounds, 2012, 526, 139-144.	5.5	25
144	Hybrid Inorganic Electron-Transporting Layer Coupled with a Halogen-Resistant Electrode in CsPbI₂Br-Based Perovskite Solar Cells to Achieve Robust Long-Term Stability. ACS Applied Materials & Interfaces, 2019, 11, 43303-43311.	8.0	25

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145	Three-dimensional mesoporous Î³-Fe₂O₃@carbon nanofiber network as high performance anode material for lithium- and sodium-ion batteries. Nanotechnology, 2020, 31, 155401.	2.6	25
146	Unraveling Strain Gradient Induced Electromechanical Coupling in Twisted Double Bilayer Graphene MoirÃ© Superlattices. Advanced Materials, 2021, 33, e2105879.	21.0	25
147	Domain-engineered Pb(Mg1/3Nb2/3)O3â€“PbTiO3 crystals: Enhanced piezoelectricity and optimal domain configurations. Applied Physics Letters, 2004, 84, 3930-3932.	3.3	24
148	Non-equilibrium microstructure of Li1.4Al0.4Ti1.6(PO4)3 superionic conductor by spark plasma sintering for enhanced ionic conductivity. Nano Energy, 2018, 51, 19-25.	16.0	24
149	Giant Domain Wall Conductivity in Selfâ€Assembled BiFeO₃ Nanocrystals. Advanced Functional Materials, 2021, 31, .	14.9	24
150	Nanomesa and nanowell formation in Langmuirâ€“Blodgett polyvinylidene fluoride trifluoroethylene copolymer films. Applied Physics Letters, 2005, 87, 213116.	3.3	23
151	Engineering domain configurations for enhanced piezoelectricity in barium titanate single crystals. Applied Physics Letters, 2006, 88, 032904.	3.3	23
152	Energy trapping of thickness-shear vibration modes of elastic plates with functionally graded materials. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 687-690.	3.0	23
153	The effective thermoelectric properties of coreâ€“shell composites. Acta Mechanica, 2014, 225, 1211-1222.	2.1	23
154	Domain evolution of tetragonal Pb(Zr_xTi_{1â^'x}) O₃ piezoelectric thin films on SrTiO₃ (100) surfaces: combined effects of misfit strain and Zr/Ti ratio. Journal of Materials Chemistry C, 2014, 2, 5836-5841.	5.5	23
155	Sponge-like porous TiO2/ZnO nanodonuts for high efficiency dye-sensitized solar cells. Journal of Power Sources, 2015, 280, 373-378.	7.8	23
156	Electromechanical Coupling of Murine Lung Tissues Probed by Piezoresponse Force Microscopy. ACS Biomaterials Science and Engineering, 2017, 3, 1827-1835.	5.2	23
157	Local two-way magnetoelectric couplings in multiferroic composites via scanning probe microscopy. Journal of Applied Physics, 2010, 108, .	2.5	22
158	Competing Interface and Bulk Effectâ€“Driven Magnetoelectric Coupling in Vertically Aligned Nanocomposites. Advanced Science, 2019, 6, 1901000.	11.2	22
159	Muscovite mica as a universal platform for flexible electronics. Journal of Materiomics, 2020, 6, 455-457.	5.7	22
160	Fracture analysis of ferroelectric single crystals: Domain switching near crack tip and electric field induced crack propagation. Journal of the Mechanics and Physics of Solids, 2013, 61, 114-130.	4.8	21
161	Asymptotic homogenization of three-dimensional thermoelectric composites. Journal of the Mechanics and Physics of Solids, 2015, 76, 98-126.	4.8	21
162	Insight into vitronectin structural evolution on material surface chemistries: The mediation for cell adhesion. Bioactive Materials, 2020, 5, 1044-1052.	15.6	21

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163	Phononic-Crystal-Enabled Dynamic Manipulation of Microparticles and Cells in an Acoustofluidic Channel. Physical Review Applied, 2020, 13, .	3.8	21
164	Nanopolar structures and local ferroelectricity of Sr0.61Ba0.39Nb2O6 relaxor crystal across Curie temperature by piezoresponse force microscopy. Journal of Applied Physics, 2009, 106, .	2.5	20
165	Size dependent domain configuration and electric field driven evolution in ultrathin ferroelectric films: A phase field investigation. Journal of Applied Physics, 2010, 107, .	2.5	20
166	High sensitivity piezomagnetic force microscopy for quantitative probing of magnetic materials at the nanoscale. Nanoscale, 2013, 5, 5747.	5.6	20
167	Tunable and highly reproducible surface-enhanced Raman scattering substrates made from large-scale nanoparticle arrays based on periodically poled LiNbO3templates. Science and Technology of Advanced Materials, 2013, 14, 055011.	6.1	20
168	Phononic crystal-enhanced near-boundary streaming for sonoporation. Applied Physics Letters, 2018, 113, 083701.	3.3	20
169	Large-scale multiferroic complex oxide epitaxy with magnetically switched polarization enabled by solution processing. National Science Review, 2020, 7, 84-91.	9.5	20
170	Enhanced thermoelectric performance of ternary compound Cu3PSe4 by defect engineering. Rare Metals, 2020, 39, 1256-1261.	7.1	20
171	Engineering polar vortex from topologically trivial domain architecture. Nature Communications, 2021, 12, 4620.	12.8	20
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