Jiang-Yu Li

List of Publications by Year in Descending Order

282 papers	12,146 citations	54 h-index	99 g-index
286 ext. papers	13,814 ext. citations	7.4 avg, IF	6.58 L-index

#	Paper	IF	Citations
282	Interfacial nitrogen modulated Z-scheme photoanode for solar water oxidation. *Journal of Power Sources*, **2022**, 519, 230784	8.9	0
281	Decoupling competing electromechanical mechanisms in dynamic atomic force microscopy. *Journal of the Mechanics and Physics of Solids*, **2022**, 159, 104758	5	0
280	Enhancement of thermoelectric performance for n-type PbS via synergy of CuSbS2 alloying and Cl doping. *Journal of Alloys and Compounds*, **2022**, 899, 163362	5.7	
279	Spatiotemporally Correlated Imaging of Interfacial Defects and Photocurrents in High Efficiency Triple-Cation Mixed-Halide Perovskites.. *Small*, **2022**, e2200523	11	2
278	Atomic structure and electrical/ionic activity of antiphase boundary in CH3NH3PbI3. *Acta Materialia* , **2022**, 234, 118010	8.4	1
277	Highly Flexible Freestanding BaTiO -CoFe O Heteroepitaxial Nanostructure Self-Assembled with Room-Temperature Multiferroicity. *Small*, **2021**, e2104213	11	1
276	Probing Ultrafast Dynamics of Ferroelectrics by Time-Resolved Pump-Probe Spectroscopy. *Advanced Science*, **2021**, 8, e2102488	13.6	3
275	Unraveling Strain Gradient Induced Electromechanical Coupling in Twisted Double Bilayer Graphene Moir Superlattices. *Advanced Materials*, **2021**, 33, e2105879	24	7
274	Imaging Graphene Moir Superlattices via Scanning Kelvin Probe Microscopy. *Nano Letters*, **2021**, 21, 3280-3286	11.5	3
273	Electric-field-driven coexistence of positive and negative electrocaloric effects near room temperature for high-efficiency two-stage cooling. *Applied Physics Letters*, **2021**, 118, 122905	3.4	6
272	Creating polar antivortex in PbTiO/SrTiO superlattice. *Nature Communications*, **2021**, 12, 2054	17.4	14
271	Polar or nonpolar? That is not the question for perovskite solar cells. *National Science Review*, **2021**, 8, nwab094	10.8	7
270	Unveiling a Hidden Event in Fluorescence Correlative Microscopy by AFM Nanomechanical Analysis. *Frontiers in Molecular Biosciences*, **2021**, 8, 669361	5.6	0
269	Superelastic oxide micropillars enabled by surface tension-modulated 90° domain switching with excellent fatigue resistance. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
268	Mechanics of electrochemical strain microscopy: Computational simulations and experimental validations. *International Journal of Solids and Structures*, **2021**, 219-220, 188-197	3.1	1
267	Engineering polar vortex from topologically trivial domain architecture. *Nature Communications*, **2021**, 12, 4620	17.4	4
266	Global-Gate Controlled One-Transistor One-Digital-Memristor Structure for Low-Bit Neural Network. *IEEE Electron Device Letters*, **2021**, 42, 106-109	4.4	4

265	Giant Domain Wall Conductivity in Self-Assembled BiFeO 3 Nanocrystals. *Advanced Functional Materials*, **2021**, 31, 2005876	15.6	12
264	Competition between activation energy and migration entropy in lithium ion conduction in superionic NASICON-type Li1□xGaxZr2(PO4)3. *Journal of Materials Chemistry A*, **2021**, 9, 7817-7825	13	2
263	Hardware-Friendly Stochastic and Adaptive Learning in Memristor Convolutional Neural Networks. *Advanced Intelligent Systems*, **2021**, 3, 2100041	6	6
262	Atomic-scale imaging of CHNHPbI structure and its decomposition pathway. *Nature Communications*, **2021**, 12, 5516	17.4	10
261	Spatially resolving heterogeneous thermal conductivity of BiCuSeO based thermoelectric nanostructures via scanning thermal microscopy. *Applied Physics Letters*, **2020**, 117, 133102	3.4	3
260	General Decomposition Pathway of Organic-Inorganic Hybrid Perovskites through an Intermediate Superstructure and its Suppression Mechanism. *Advanced Materials*, **2020**, 32, e2001107	24	23
259	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	17.1	31
258	Highly Flexible and Twistable Freestanding Single Crystalline Magnetite Film with Robust Magnetism. *Advanced Functional Materials*, **2020**, 30, 2003495	15.6	26
257	Quantitative functional imaging of VO2 metal-insulator transition through intermediate M2 phase. *Acta Materialia*, **2020**, 195, 720-727	8.4	4
256	Minimizing electrostatic interactions from piezoresponse force microscopy via capacitive excitation. *Theoretical and Applied Mechanics Letters*, **2020**, 10, 23-26	1.8	4
255	Enhanced thermoelectric performance of ternary compound Cu3PSe4 by defect engineering. *Rare Metals*, **2020**, 39, 1256-1261	5.5	10
254	Atomic-Scale insight into the reversibility of polar order in ultrathin epitaxial Nb:SrTiO3/BaTiO3 heterostructure and its implication to resistive switching. *Acta Materialia*, **2020**, 188, 23-29	8.4	9
253	Three-dimensional domain patterns in tetragonal-to-monoclinic Bi4Ti3O12 ceramics: Nonlinear analysis and piezoresponse force microscopy imaging. *Acta Materialia*, **2020**, 188, 228-240	8.4	5
252	Phononic-Crystal-Enabled Dynamic Manipulation of Microparticles and Cells in an Acoustofluidic Channel. *Physical Review Applied*, **2020**, 13,	4.3	8
251	Electromechanical analysis of direct and converse flexoelectric effects under a scanning probe tip. *Journal of the Mechanics and Physics of Solids*, **2020**, 142, 104020	5	19
250	Transmission electron microscopy of organic-inorganic hybrid perovskites: myths and truths. *Science Bulletin*, **2020**, 65, 1643-1649	10.6	17
249	First Atomic-Scale Insight into Degradation in Lithium Iron Phosphate Cathodes by Transmission Electron Microscopy. *Journal of Physical Chemistry Letters*, **2020**, 11, 4608-4617	6.4	4
248	Highly Robust Flexible Ferroelectric Field Effect Transistors Operable at High Temperature with Low-Power Consumption. *Advanced Functional Materials*, **2020**, 30, 1906131	15.6	20

247	High fidelity direct measurement of local electrocaloric effect by scanning thermal microscopy. *Nano Energy*, **2020**, 67, 104203	17.1	21
246	Three-dimensional mesoporous □FeO@carbon nanofiber network as high performance anode material for lithium- and sodium-ion batteries. *Nanotechnology*, **2020**, 31, 155401	3.4	13
245	Muscovite mica as a universal platform for flexible electronics. *Journal of Materiomics*, **2020**, 6, 455-457	6.7	12
244	Dynamics and manipulation of ferroelectric domain walls in bismuth ferrite thin films. *National Science Review*, **2020**, 7, 278-284	10.8	10
243	Selective doping to relax glassified grain boundaries substantially enhances the ionic conductivity of LiTi2(PO4)3 glass-ceramic electrolytes. *Journal of Power Sources*, **2020**, 449, 227574	8.9	9
242	Relaxation of competing electromechanical couplings in murine artery. *Applied Physics Letters*, **2020**, 117, 143701	3.4	
241	Suppressing Defects-Induced Nonradiative Recombination for Efficient Perovskite Solar Cells through Green Antisolvent Engineering. *Advanced Materials*, **2020**, 32, e2003965	24	65
240	Insight into vitronectin structural evolution on material surface chemistries: The mediation for cell adhesion. *Bioactive Materials*, **2020**, 5, 1044-1052	16.7	12
239	Layer-dependent and light-tunable surface potential of two-dimensional indium selenide (InSe) flakes. *Rare Metals*, **2020**, 39, 1356-1363	5.5	8
238	Flexible electronic synapse enabled by ferroelectric field effect transistor for robust neuromorphic computing. *Applied Physics Letters*, **2020**, 117, 092903	3.4	27
237	Spatially Resolved Electrochemical Strain of Solid-State Electrolytes via High Resolution Sequential Excitation and Its Implication on Grain Boundary Impedance. *Small Methods*, **2020**, 4, 2000308	12.8	9
236	Large-scale multiferroic complex oxide epitaxy with magnetically switched polarization enabled by solution processing. *National Science Review*, **2020**, 7, 84-91	10.8	11
235	Giant Resistivity Change of Transparent ZnO/Muscovite Heteroepitaxy. *ACS Applied Materials & Interfaces*, **2020**, 12, 21818-21826	9.5	6
234	Super-elastic ferroelectric single-crystal membrane with continuous electric dipole rotation. *Science*, **2019**, 366, 475-479	33.3	127
233	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. *Nature Communications*, **2019**, 10, 3951	17.4	25
232	Resolving local dynamics of dual ions at the nanoscale in electrochemically active materials. *Nano Energy*, **2019**, 66, 104160	17.1	12
231	Simultaneous focusing and rotation of a bifunctional thermal metamaterial with constant anisotropic conductivity. *Journal of Applied Physics*, **2019**, 126, 095103	2.5	7
230	Resolving fine electromechanical structure of collagen fibrils via sequential excitation piezoresponse force microscopy. *Nanotechnology*, **2019**, 30, 205703	3.4	7

229	First-principles study of interfacial magnetoelectric coupling in Fe3Ga/BaTiO3/Fe3Ga heterostructure. *Journal of Applied Physics*, **2019**, 125, 184102	2.5	3
228	Elastic properties and intrinsic strength of two-dimensional InSe flakes. *Nanotechnology*, **2019**, 30, 335703	3.4	16
227	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	17.1	44
226	Nanomechanics of multiferroic composite nanofibers via local excitation piezoresponse force microscopy. *Journal of the Mechanics and Physics of Solids*, **2019**, 126, 76-86	5	7
225	Competing Interface and Bulk Effect-Driven Magnetoelectric Coupling in Vertically Aligned Nanocomposites. *Advanced Science*, **2019**, 6, 1901000	13.6	17
224	Nanoscale Insights into Photovoltaic Hysteresis in Triple-Cation Mixed-Halide Perovskite: Resolving the Role of Polarization and Ionic Migration. *Advanced Materials*, **2019**, 31, e1902870	24	58
223	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	13	26
222	Multiferroics under the tip: probing magnetoelectric coupling at the nanoscale. *National Science Review*, **2019**, 6, 626-628	10.8	12
221	Efficient and Stable Inverted Perovskite Solar Cells Incorporating Secondary Amines. *Advanced Materials*, **2019**, 31, e1903559	24	85
220	A Tailored Nickel Oxide Hole-Transporting Layer to Improve the Long-Term Thermal Stability of Inorganic Perovskite Solar Cells. *Solar Rrl*, **2019**, 3, 1900346	7.1	22
219	Perovskite Solar Cells: Efficient and Stable Inverted Perovskite Solar Cells Incorporating Secondary Amines (Adv. Mater. 46/2019). *Advanced Materials*, **2019**, 31, 1970330	24	1
218	Hybrid Inorganic Electron-Transporting Layer Coupled with a Halogen-Resistant Electrode in CsPbIBr-Based Perovskite Solar Cells to Achieve Robust Long-Term Stability. *ACS Applied Materials & Interfaces*, **2019**, 11, 43303-43311	9.5	16
217	High-throughput sequential excitation for nanoscale mapping of electrochemical strain in granular ceria. *Nanoscale*, **2019**, 11, 23188-23196	7.7	8
216	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	16.4	58
215	Mechanical probing of ferroelectrics at the nanoscale. *Journal of Materials Chemistry C*, **2019**, 7, 12441-12462	7.1	10
214	Mapping intrinsic electromechanical responses at the nanoscale via sequential excitation scanning probe microscopy empowered by deep data. *National Science Review*, **2019**, 6, 55-63	10.8	22
213	Electrically permeable and thermally insulated collinear cracks in thermoelectric materials. *Acta Mechanica*, **2019**, 230, 1275-1288	2.1	1
212	Quadratic electromechanical strain in silicon investigated by scanning probe microscopy. *Journal of Applied Physics*, **2018**, 123, 155104	2.5	34

211	Self-assembling epitaxial growth of a single crystalline CoFe2O4 nanopillar array via dual-target pulsed laser deposition. *Journal of Materials Chemistry C*, **2018**, 6, 4854-4860	7.1	4
210	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	13	25
209	Tuning Fe concentration in epitaxial gallium ferrite thin films for room temperature multiferroic properties. *Acta Materialia*, **2018**, 145, 488-495	8.4	20
208	Nanoscale coaxial focused electrohydrodynamic jet printing. *Nanoscale*, **2018**, 10, 9867-9879	7.7	28
207	Quantitative nanoscale mapping of three-phase thermal conductivities in filled skutterudites via scanning thermal microscopy. *National Science Review*, **2018**, 5, 59-69	10.8	19
206	Ferroic domains regulate photocurrent in single-crystalline CH3NH3PbI3 films self-grown on FTO/TiO2 substrate. *Npj Quantum Materials*, **2018**, 3,	5	66
205	Role of Ninth Type-III Domain of Fibronectin in the Mediation of Cell-Binding Domain Adsorption on Surfaces with Different Chemistries. *Langmuir*, **2018**, 34, 9847-9855	4	6
204	Piezoelectricity of atomically thin WSe2 via laterally excited scanning probe microscopy. *Nano Energy*, **2018**, 52, 117-122	17.1	30
203	Deterministic, Reversible, and Nonvolatile Low-Voltage Writing of Magnetic Domains in Epitaxial BaTiO/FeO Heterostructure. *ACS Nano*, **2018**, 12, 9558-9567	16.7	34
202	Phononic crystal-enhanced near-boundary streaming for sonoporation. *Applied Physics Letters*, **2018**, 113, 083701	3.4	13
201	Conductive tail-to-tail domain walls in epitaxial BiFeO3 films. *Applied Physics Letters*, **2018**, 113, 082904	3.4	12
200	PIEZO channel protein naturally expressed in human breast cancer cell MDA-MB-231 as probed by atomic force microscopy. *AIP Advances*, **2018**, 8, 055101	1.5	7
199	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	17.1	20
198	Giant thermally-enhanced electrostriction and polar surface phase in La2Mo2O9 oxygen ion conductors. *Physical Review Materials*, **2018**, 2,	3.2	6
197	An artificial intelligence atomic force microscope enabled by machine learning. *Nanoscale*, **2018**, 10, 21320-21326	7.7	36
196	Atomic scale insights into structure instability and decomposition pathway of methylammonium lead iodide perovskite. *Nature Communications*, **2018**, 9, 4807	17.4	113
195	Rapid acoustophoretic motion of microparticles manipulated by phononic crystals. *Applied Physics Letters*, **2018**, 113, 173503	3.4	11
194	Mapping the elastic properties of two-dimensional MoS2 via bimodal atomic force microscopy and finite element simulation. *Npj Computational Materials*, **2018**, 4,	10.9	41

193	Multifield Control of Domains in a Room-Temperature Multiferroic 0.85BiTiFeMgO-0.15CaTiO Thin Film. *ACS Applied Materials & Interfaces*, **2018**, 10, 20712-20719	9.5	11
192	Photo-induced ferroelectric switching in perovskite CHNHPbI films. *Nanoscale*, **2017**, 9, 3806-3817	7.7	72
191	A sintering-free, nanocrystalline tin oxide electron selective layer for organometal perovskite solar cells. *Science China Materials*, **2017**, 60, 208-216	7.1	10
190	The Coupled Bio-Chemo-Electro-Mechanical Behavior of Glucose Exposed Arterial Elastin. *Journal Physics D: Applied Physics*, **2017**, 50,	3	2
189	Nanotube enhanced carbon grids as top electrodes for fully printable mesoscopic semitransparent perovskite solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 10374-10379	13	45
188	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	3.3	19
187	Electromechanical Coupling of Murine Lung Tissues Probed by Piezoresponse Force Microscopy. *ACS Biomaterials Science and Engineering*, **2017**, 3, 1827-1835	5.5	18
186	Metallopolyyne polymers containing naphthalene diimide-oligothiophene moieties and their applications in organic field-effect transistors. *Journal of Organometallic Chemistry*, **2017**, 846, 269-276	2.3	6
185	Design of coherent anode materials with 0D Ni3S2 nanoparticles self-assembled on 3D interconnected carbon networks for fast and reversible sodium storage. *Journal of Materials Chemistry A*, **2017**, 5, 7394-7402	13	112
184	Touching is believing: interrogating halide perovskite solar cells at the nanoscale via scanning probe microscopy. *Npj Quantum Materials*, **2017**, 2,	5	35
183	Single crystalline CH3NH3PbI3 self-grown on FTO/TiO2 substrate for high efficiency perovskite solar cells. *Science Bulletin*, **2017**, 62, 1173-1176	10.6	44
182	Three-dimensional piezoelectric fibrous scaffolds selectively promote mesenchymal stem cell differentiation. *Biomaterials*, **2017**, 149, 51-62	15.6	125
181	Highly Reversible Sodium-ion Storage in NaTi2(PO4)3/C Composite Nanofibers. *Electrochimica Acta*, **2017**, 252, 523-531	6.7	25
180	Imaging Space Charge Regions in Sm-Doped Ceria Using Strain-Based Scanning Probe Techniques. *ECS Transactions*, **2017**, 78, 335-342	1	3
179	Imaging ferroelectric domains via charge gradient microscopy enhanced by principal component analysis. *Journal of Materiomics*, **2017**, 3, 280-285	6.7	4
178	High-density array of ferroelectric nanodots with robust and reversibly switchable topological domain states. *Science Advances*, **2017**, 3, e1700919	14.3	87
177	An organic-inorganic perovskite ferroelectric with large piezoelectric response. *Science*, **2017**, 357, 306-309	333	506
176	Large Scale Two-Dimensional Flux-Closure Domain Arrays in Oxide Multilayers and Their Controlled Growth. *Nano Letters*, **2017**, 17, 7258-7266	11.5	41

175	Scanning Thermo-Ionic Microscopy: Probing Nanoscale Electrochemistry via Thermal Stress-Induced Oscillation. *Microscopy Today*, **2017**, 25, 12-19	0.4	10
174	Nonvolatile ferroelectric domain wall memory. *Science Advances*, **2017**, 3, e1700512	14.3	183
173	Comparative studies of the electronic structure and thermoelectric properties in orthorhombic and tetragonal BaCu2Se2 by first-principles calculations. *RSC Advances*, **2016**, 6, 60717-60722	3.7	6
172	A highly sensitive compact liquid sensor based on slotted phononic crystal plates. *Lab on A Chip*, **2016**, 16, 4595-4600	7.2	14
171	Structural and electronic transformation pathways in morphotropic BiFeO3. *Scientific Reports*, **2016** , 6, 32347	4.9	15
170	Predicted thermoelectric properties of natural superlattice structural compounds BaCuChF (Ch = S, Se and Te) by first-principles calculations. *Journal of Alloys and Compounds*, **2016**, 686, 571-576	5.7	7
169	Strong correlation between early stage atherosclerosis and electromechanical coupling of aorta. *Nanoscale*, **2016**, 8, 6975-80	7.7	5
168	Morphotropic Phase Elasticity of Strained BiFeO3. *Advanced Materials Interfaces*, **2016**, 3, 1600033	4.6	32
167	Scanning thermo-ionic microscopy for probing local electrochemistry at the nanoscale. *Journal of Applied Physics*, **2016**, 119, 205110	2.5	26
166	Lamellar MoSe nanosheets embedded with MoO nanoparticles: novel hybrid nanostructures promoted excellent performances for lithium ion batteries. *Nanoscale*, **2016**, 8, 17902-17910	7.7	129
165	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	13	70
164	Strain-based scanning probe microscopies for functional materials, biological structures, and electrochemical systems. *Journal of Materiomics*, **2015**, 1, 3-21	6.7	87
163	Two-Dimensional Problem of a Crack in Thermoelectric Materials. *Journal of Thermal Stresses*, **2015**, 38, 325-337	2.2	46
162	Shifted Morphotropic Phase Boundary in [111]-Oriented Nb-Doped Pb(ZrxTi1⊠)O3 Epitaxial Films: Insights into Piezoelectricity and Domain Variation. *Journal of Physical Chemistry C*, **2015**, 119, 19891-19896	3.8	13
161	A novel mechanism to reduce coercive field of ferroelectric materials via {1 1 1} twin engineering. *Acta Materialia*, **2015**, 97, 404-412	8.4	9
160	Atomic Visualization of the Phase Transition in Highly Strained BiFeO3 Thin Films with Excellent Pyroelectric Response. *Nano Energy*, **2015**, 17, 72-81	17.1	17
159	The coupled lithium ion diffusion and stress in battery electrodes. *Mechanics of Materials*, **2015**, 91, 343-350	3.3	16
158	What is the mechanism behind biological ferroelectricity?. *Extreme Mechanics Letters*, **2015**, 4, 162-174	3.9	3

157	Tuning the functionalities of a mesocrystal via structural coupling. *Scientific Reports*, **2015**, 5, 12073	4.9	16
156	Enhanced lithium ion storage in nanoimprinted carbon. *Applied Physics Letters*, **2015**, 107, 043904	3.4	1
155	Band engineering via biaxial strain for enhanced thermoelectric performance in stannite-type Cu2ZnSnSe4. *RSC Advances*, **2015**, 5, 24908-24914	3.7	11
154	Asymptotic homogenization of three-dimensional thermoelectric composites. *Journal of the Mechanics and Physics of Solids*, **2015**, 76, 98-126	5	14
153	Enhancement of local piezoresponse in polymer ferroelectrics via nanoscale control of microstructure. *ACS Nano*, **2015**, 9, 1809-19	16.7	53
152	Sponge-like porous TiO2/ZnO nanodonuts for high efficiency dye-sensitized solar cells. *Journal of Power Sources*, **2015**, 280, 373-378	8.9	20
151	A molecular ferroelectric thin film of imidazolium perchlorate that shows superior electromechanical coupling. *Angewandte Chemie - International Edition*, **2014**, 53, 5064-8	16.4	80
150	Precipitate morphologies of pseudobinary Sb2Te3PbTe thermoelectric compounds. *Acta Materialia*, **2014**, 65, 308-315	8.4	16
149	2% ZnO increases the conversion efficiency of TiO2 based dye sensitized solar cells by 12%. *Journal of Alloys and Compounds*, **2014**, 583, 414-418	5.7	4
148	Design of magnetoelectric coupling in a self-assembled epitaxial nanocomposite via chemical interaction. *Journal of Materials Chemistry C*, **2014**, 2, 811-815	7.1	15
147	Piezoelectricity of lead-free (K, Na)NbO3 nanoscale single crystals. *Journal of Materials Chemistry C*, **2014**, 2, 9091-9098	7.1	23
146	Ferroelectric switching of elastin. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E2780-6	11.5	57
145	Domain evolution of tetragonal Pb(ZrxTi1) 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	7.1	23
144	Anomalous piezoelectricity in two-dimensional graphene nitride nanosheets. *Nature Communications*, **2014**, 5, 4284	17.4	157
143	Giant enhancement of ferroelectric retention in BiFeO3 mixed-phase boundary. *Advanced Materials* , **2014**, 26, 6335-40	24	33
142	Phononic-Crystal-Based Acoustic Sieve for Tunable Manipulations of Particles by a Highly Localized Radiation Force. *Physical Review Applied*, **2014**, 1,	4.3	51
141	Efficiency enhancement of ZnO-based dye-sensitized solar cell by hollow TiO2 nanofibers. *Journal of Alloys and Compounds*, **2014**, 611, 19-23	5.7	36
140	A Molecular Ferroelectric Thin Film of Imidazolium Perchlorate That Shows Superior Electromechanical Coupling. *Angewandte Chemie*, **2014**, 126, 5164-5168	3.6	13

139	Kinetics of 90° domain wall motions and high frequency mesoscopic dielectric response in strained ferroelectrics: a phase-field simulation. *Scientific Reports*, **2014**, 4, 5007	4.9	8
138	High pressure effect on the electronic structure and thermoelectric properties of BiCuSeO: first-principles calculations. *RSC Advances*, **2014**, 4, 54819-54825	3.7	29
137	Piezoelectric and piezomagnetic force microscopies of multiferroic BiFeO3-LiMn2O4 heterostructures. *Journal of Applied Physics*, **2014**, 116, 066805	2.5	9
136	Orientation-dependent piezoelectricity and domain characteristics of tetragonal Pb(Zr0.3,Ti0.7)0.98Nb0.02O3 thin films on Nb-doped SrTiO3 substrates. *Applied Physics Letters*, **2014**, 104, 012908	3.4	14
135	Mechanisms of electromechanical coupling in strain based scanning probe microscopy. *Applied Physics Letters*, **2014**, 104, 242907	3.4	105
134	Imaging space charge regions in Sm-doped ceria using electrochemical strain microscopy. *Applied Physics Letters*, **2014**, 105, 201602	3.4	41
133	The effective thermoelectric properties of core□shell composites. *Acta Mechanica*, **2014**, 225, 1211-1222	2.1	22
132	Effect of strain on thermoelectric properties of SrTiO3: First-principles calculations. *Chemical Physics Letters*, **2013**, 586, 159-163	2.5	22
131	First-principles study of thermoelectric and lattice vibrational properties of chalcopyrite CuGaTe2. *Journal of Alloys and Compounds*, **2013**, 570, 150-155	5.7	45
130	CoO-carbon nanofiber networks prepared by electrospinning as binder-free anode materials for lithium-ion batteries with enhanced properties. *Nanoscale*, **2013**, 5, 12342-9	7.7	135
129	Molecular ferroelectrics: where electronics meet biology. *Physical Chemistry Chemical Physics*, **2013**, 15, 20786-96	3.6	74
128	Resolving ferroelectric nanostructures via piezoresponse force microscopy□A numerical investigation. *Journal of Applied Physics*, **2013**, 113, 187223	2.5	10
127	Titanium alkoxide induced BiOBr□Bi2WO6 mesoporous nanosheet composites with much enhanced photocatalytic activity. *Journal of Materials Chemistry A*, **2013**, 1, 7949	13	109
126	Ultrafine LiCoO2 powders derived from electrospun nanofibers for Li-ion batteries. *Journal of Physics and Chemistry of Solids*, **2013**, 74, 322-327	3.9	25
125	Diisopropylammonium bromide is a high-temperature molecular ferroelectric crystal. *Science*, **2013**, 339, 425-8	33.3	583
124	The electromechanics of piezoresponse force microscopy for a transversely isotropic piezoelectric medium. *Acta Materialia*, **2013**, 61, 7020-7033	8.4	23
123	Is thermoelectric conversion efficiency of a composite bounded by its constituents?. *Applied Physics Letters*, **2013**, 102, 053905	3.4	27
122	Nonlinear asymptotic homogenization and the effective behavior of layered thermoelectric composites. *Journal of the Mechanics and Physics of Solids*, **2013**, 61, 1768-1783	5	36

121	Enhanced piezoelectric performance of composite sol-gel thick films evaluated using piezoresponse force microscopy. *Journal of Applied Physics*, **2013**, 113, 187205	2.5	18
120	Electronic structure and thermoelectric properties of half-Heusler Zr0.5Hf0.5NiSn by first-principles calculations. *Journal of Applied Physics*, **2013**, 113, 193705	2.5	49
119	High sensitivity piezomagnetic force microscopy for quantitative probing of magnetic materials at the nanoscale. *Nanoscale*, **2013**, 5, 5747-51	7.7	19
118	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	5	19
117	Electronic structures and thermoelectric properties of layered BiCuOCh oxychalcogenides (Ch = S, Se and Te): first-principles calculations. *Journal of Materials Chemistry A*, **2013**, 1, 8888	13	104
116	Glucose suppresses biological ferroelectricity in aortic elastin. *Physical Review Letters*, **2013**, 110, 168101	7.4	49
115	Unraveling the origins of electromechanical response in mixed-phase bismuth ferrite. *Physical Review B*, **2013**, 88,	3.3	28
114	Preface to Special Topic: Selected Papers from the Piezoresponse Force Microscopy Workshop Series: Part of the Joint ISAF-ECAPD-PFM 2012 Conference. *Journal of Applied Physics*, **2013**, 113, 187101	2.5	2
113	Strain-engineered orthorhombic-rhombohedral phase boundary in epitaxial bismuth ferrite films. *Journal of Applied Physics*, **2013**, 113, 183524	2.5	28
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