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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	High energy density nanocomposites based on surface-modified BaTiO ₃ and a ferroelectric polymer. <i>ACS Nano</i> , 2009 , 3, 2581-92	16.7	678
281	Diisopropylammonium bromide is a high-temperature molecular ferroelectric crystal. <i>Science</i> , 2013 , 339, 425-8	33.3	583
280	An organic-inorganic perovskite ferroelectric with large piezoelectric response. <i>Science</i> , 2017 , 357, 306-309	39.3	506
279	Electromechanical response of ionic polymer-metal composites. <i>Journal of Applied Physics</i> , 2000 , 87, 3321-3331	2.5	502
278	Domain switching in polycrystalline ferroelectric ceramics. <i>Nature Materials</i> , 2005 , 4, 776-81	27	329
277	Magnetoelectroelastic multi-inclusion and inhomogeneity problems and their applications in composite materials. <i>International Journal of Engineering Science</i> , 2000 , 38, 1993-2011	5.7	290
276	Micromechanics of Magnetoelectroelastic Composite Materials: Average Fields and Effective Behavior. <i>Journal of Intelligent Material Systems and Structures</i> , 1998 , 9, 404-416	2.3	288
275	Domain dynamics during ferroelectric switching. <i>Science</i> , 2011 , 334, 968-71	33.3	277
274	Electric energy density of dielectric nanocomposites. <i>Applied Physics Letters</i> , 2007 , 90, 132901	3.4	238
273	Comparison of the effective conductivity between composites reinforced by graphene nanosheets and carbon nanotubes. <i>Applied Physics Letters</i> , 2008 , 92, 243121	3.4	189
272	Nonvolatile ferroelectric domain wall memory. <i>Science Advances</i> , 2017 , 3, e1700512	14.3	183
271	Mesoporous vanadium pentoxide nanofibers with significantly enhanced Li-ion storage properties by electrospinning. <i>Energy and Environmental Science</i> , 2011 , 4, 858-861	35.4	167
270	Stretchable ferroelectric nanoribbons with wavy configurations on elastomeric substrates. <i>ACS Nano</i> , 2011 , 5, 3326-32	16.7	162
269	Anomalous piezoelectricity in two-dimensional graphene nitride nanosheets. <i>Nature Communications</i> , 2014 , 5, 4284	17.4	157
268	CoO-carbon nanofiber networks prepared by electrospinning as binder-free anode materials for lithium-ion batteries with enhanced properties. <i>Nanoscale</i> , 2013 , 5, 12342-9	7.7	135
267	Lamellar MoSe nanosheets embedded with MoO nanoparticles: novel hybrid nanostructures promoted excellent performances for lithium ion batteries. <i>Nanoscale</i> , 2016 , 8, 17902-17910	7.7	129
266	Super-elastic ferroelectric single-crystal membrane with continuous electric dipole rotation. <i>Science</i> , 2019 , 366, 475-479	33.3	127

265	Three-dimensional piezoelectric fibrous scaffolds selectively promote mesenchymal stem cell differentiation. <i>Biomaterials</i> , 2017 , 149, 51-62	15.6	125
264	X-ray diffraction measurement of residual stress in PZT thin films prepared by pulsed laser deposition. <i>Acta Materialia</i> , 2004 , 52, 3313-3322	8.4	125
263	Biological ferroelectricity uncovered in aortic walls by piezoresponse force microscopy. <i>Physical Review Letters</i> , 2012 , 108, 078103	7.4	123
262	Multiferroic CoFe ₂ O ₄ -Pb(Zr _{0.52} Ti _{0.48}))O ₃ core-shell nanofibers and their magnetoelectric coupling. <i>Nanoscale</i> , 2011 , 3, 3152-8	7.7	114
261	Atomic scale insights into structure instability and decomposition pathway of methylammonium lead iodide perovskite. <i>Nature Communications</i> , 2018 , 9, 4807	17.4	113
260	Design of coherent anode materials with 0D Ni ₃ S ₂ nanoparticles self-assembled on 3D interconnected carbon networks for fast and reversible sodium storage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7394-7402	13	112
259	Titanium alkoxide induced BiOBr/Bi ₂ WO ₆ mesoporous nanosheet composites with much enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7949	13	109
258	Exchange coupling in P(VDF-TrFE) copolymer based all-organic composites with giant electrostriction. <i>Physical Review Letters</i> , 2003 , 90, 217601	7.4	108
257	Mechanisms of electromechanical coupling in strain based scanning probe microscopy. <i>Applied Physics Letters</i> , 2014 , 104, 242907	3.4	105
256	Electronic structures and thermoelectric properties of layered BiCuOCh oxychalcogenides (Ch = S, Se and Te): first-principles calculations. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8888	13	104
255	Enhanced electromechanical properties in all-polymer percolative composites. <i>Applied Physics Letters</i> , 2004 , 84, 3124-3126	3.4	92
254	Micromechanical analysis of ionic clustering in Nafion perfluorinated membrane. <i>Mechanics of Materials</i> , 2000 , 32, 303-314	3.3	92
253	Nanocrystalline multiferroic BiFeO ₃ ultrafine fibers by sol-gel based electrospinning. <i>Applied Physics Letters</i> , 2008 , 93, 222904	3.4	88
252	Strain-based scanning probe microscopies for functional materials, biological structures, and electrochemical systems. <i>Journal of Materiomics</i> , 2015 , 1, 3-21	6.7	87
251	High-density array of ferroelectric nanodots with robust and reversibly switchable topological domain states. <i>Science Advances</i> , 2017 , 3, e1700919	14.3	87
250	Efficient and Stable Inverted Perovskite Solar Cells Incorporating Secondary Amines. <i>Advanced Materials</i> , 2019 , 31, e1903559	24	85
249	Rapid nanoimprinting and excellent piezoresponse of polymeric ferroelectric nanostructures. <i>ACS Nano</i> , 2010 , 4, 83-90	16.7	84
248	A molecular ferroelectric thin film of imidazolium perchlorate that shows superior electromechanical coupling. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5064-8	16.4	80

247	On ferroelectric crystals with engineered domain configurations. <i>Journal of the Mechanics and Physics of Solids</i> , 2004 , 52, 1719-1742	5	80
246	Molecular ferroelectrics: where electronics meet biology. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 20786-96	3.6	74
245	Photo-induced ferroelectric switching in perovskite CH ₃ NH ₃ PbI ₃ films. <i>Nanoscale</i> , 2017 , 9, 3806-3817	7.7	72
244	High resolution quantitative piezoresponse force microscopy of BiFeO ₃ nanofibers with dramatically enhanced sensitivity. <i>Nanoscale</i> , 2012 , 4, 408-13	7.7	71
243	The effective magnetoelectric coefficients of polycrystalline multiferroic composites. <i>Acta Materialia</i> , 2005 , 53, 4135-4142	8.4	71
242	Three dimensional architecture of carbon wrapped multilayer Na ₃ V ₂ O ₂ (PO ₄) ₂ F nanocubes embedded in graphene for improved sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17563-17568	13	70
241	Nanocrystalline Thermoelectric Ca ₃ Co ₄ O ₉ Ceramics by Sol-Gel Based Electrospinning and Spark Plasma Sintering. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10061-10065	3.8	70
240	Nanoscale control of phase variants in strain-engineered BiFeO ₃ . <i>Nano Letters</i> , 2011 , 11, 3346-54	11.5	70
239	The effective electroelastic moduli of textured piezoelectric polycrystalline aggregates. <i>Journal of the Mechanics and Physics of Solids</i> , 2000 , 48, 529-552	5	70
238	The effective magneto-electroelastic moduli of matrix-based multiferroic composites. <i>Journal of Applied Physics</i> , 2006 , 99, 043905	2.5	68
237	Multiferroic CoFe ₂ O ₄ /Pb(Zr _{0.52} Ti _{0.48})O ₃ nanofibers by electrospinning. <i>Applied Physics Letters</i> , 2008 , 92, 062901	3.4	67
236	Ferroic domains regulate photocurrent in single-crystalline CH ₃ NH ₃ PbI ₃ films self-grown on FTO/TiO ₂ substrate. <i>Npj Quantum Materials</i> , 2018 , 3,	5	66
235	Mesoporous carbon nanofibers with a high surface area electrospun from thermoplastic polyvinylpyrrolidone. <i>Nanoscale</i> , 2012 , 4, 7199-204	7.7	65
234	Suppressing Defects-Induced Nonradiative Recombination for Efficient Perovskite Solar Cells through Green Antisolvent Engineering. <i>Advanced Materials</i> , 2020 , 32, e2003965	24	65
233	Colossal dielectric and electromechanical responses in self-assembled polymeric nanocomposites. <i>Applied Physics Letters</i> , 2005 , 87, 182901	3.4	64
232	Nano-indentation fracture test of Pb(Zr _{0.52} Ti _{0.48})O ₃ ferroelectric thin films. <i>Acta Materialia</i> , 2003 , 51, 3985-3997	8.4	59
231	Nanoscale Insights into Photovoltaic Hysteresis in Triple-Cation Mixed-Halide Perovskite: Resolving the Role of Polarization and Ionic Migration. <i>Advanced Materials</i> , 2019 , 31, e1902870	24	58
230	From One to Two: In Situ Construction of an Ultrathin 2D-2D Closely Bonded Heterojunction from a Single-Phase Monolayer Nanosheet. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19715-19727	16.4	58

229	Ferroelectric switching of elastin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2780-6	11.5	57
228	Interaction of O vacancies and domain structures in single crystal BaTiO ₃ : Two-dimensional ferroelectric model. <i>Physical Review B</i> , 2008 , 77,	3.3	54
227	Enhancement of local piezoresponse in polymer ferroelectrics via nanoscale control of microstructure. <i>ACS Nano</i> , 2015 , 9, 1809-19	16.7	53
226	Microimprinting and ferroelectric properties of poly(vinylidene fluoride-trifluoroethylene) copolymer films. <i>Applied Physics Letters</i> , 2007 , 91, 172906	3.4	53
225	Delineating local electromigration for nanoscale probing of lithium ion intercalation and extraction by electrochemical strain microscopy. <i>Applied Physics Letters</i> , 2012 , 101, 063901	3.4	52
224	Phononic-Crystal-Based Acoustic Sieve for Tunable Manipulations of Particles by a Highly Localized Radiation Force. <i>Physical Review Applied</i> , 2014 , 1,	4.3	51
223	Electronic structure and thermoelectric properties of half-Heusler Zr _{0.5} Hf _{0.5} NiSn by first-principles calculations. <i>Journal of Applied Physics</i> , 2013 , 113, 193705	2.5	49
222	Glucose suppresses biological ferroelectricity in aortic elastin. <i>Physical Review Letters</i> , 2013 , 110, 168101	7.4	49
221	On micromechanics approximation for the effective thermoelastic moduli of multi-phase composite materials. <i>Mechanics of Materials</i> , 1999 , 31, 149-159	3.3	48
220	Direct observations of retention failure in ferroelectric memories. <i>Advanced Materials</i> , 2012 , 24, 1106-1108	2.4	47
219	Two-Dimensional Problem of a Crack in Thermoelectric Materials. <i>Journal of Thermal Stresses</i> , 2015 , 38, 325-337	2.2	46
218	Nanotube enhanced carbon grids as top electrodes for fully printable mesoscopic semitransparent perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10374-10379	13	45
217	First-principles study of thermoelectric and lattice vibrational properties of chalcopyrite CuGaTe ₂ . <i>Journal of Alloys and Compounds</i> , 2013 , 570, 150-155	5.7	45
216	Thermoelastic behavior of composites with functionally graded interphase: a multi-inclusion model. <i>International Journal of Solids and Structures</i> , 2000 , 37, 5579-5597	3.1	45
215	Highly flexible, robust, stable and high efficiency perovskite solar cells enabled by van der Waals epitaxy on mica substrate. <i>Nano Energy</i> , 2019 , 60, 476-484	17.1	44
214	Single crystalline CH ₃ NH ₃ PbI ₃ self-grown on FTO/TiO ₂ substrate for high efficiency perovskite solar cells. <i>Science Bulletin</i> , 2017 , 62, 1173-1176	10.6	44
213	On the effective thermoelectric properties of layered heterogeneous medium. <i>Journal of Applied Physics</i> , 2012 , 111, 013510	2.5	44
212	Phase-field simulation of magnetoelastic couplings in ferromagnetic shape memory alloys. <i>Acta Materialia</i> , 2011 , 59, 2648-2655	8.4	44

211	Oxygen-vacancy-induced memory effect and large recoverable strain in a barium titanate single crystal. <i>Physical Review B</i> , 2010 , 82,	3.3	42
210	Austenite β martensite interface in shape memory alloys. <i>Applied Physics Letters</i> , 2010 , 96, 141910	3.4	42
209	Large Scale Two-Dimensional Flux-Closure Domain Arrays in Oxide Multilayers and Their Controlled Growth. <i>Nano Letters</i> , 2017 , 17, 7258-7266	11.5	41
208	Imaging space charge regions in Sm-doped ceria using electrochemical strain microscopy. <i>Applied Physics Letters</i> , 2014 , 105, 201602	3.4	41
207	The enhanced and optimal piezoelectric coefficients in single crystalline barium titanate with engineered domain configurations. <i>Applied Physics Letters</i> , 2003 , 83, 1193-1195	3.4	41
206	Mapping the elastic properties of two-dimensional MoS ₂ via bimodal atomic force microscopy and finite element simulation. <i>Npj Computational Materials</i> , 2018 , 4,	10.9	41
205	Constrained modeling of domain patterns in rhombohedral ferroelectrics. <i>Applied Physics Letters</i> , 2008 , 92, 052909	3.4	40
204	Two-dimensional analysis of magnetoelectric effects in multiferroic laminated plates. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 1046-53	3.2	38
203	Efficiency enhancement of ZnO-based dye-sensitized solar cell by hollow TiO ₂ nanofibers. <i>Journal of Alloys and Compounds</i> , 2014 , 611, 19-23	5.7	36
202	Nonlinear asymptotic homogenization and the effective behavior of layered thermoelectric composites. <i>Journal of the Mechanics and Physics of Solids</i> , 2013 , 61, 1768-1783	5	36
201	Nanocrystalline Structure and Thermoelectric Properties of Electrospun NaCo ₂ O ₄ Nanofibers. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22038-22043	3.8	36
200	Misfit strain modulated phase structures of epitaxial Pb(Zr _{1-x} Ti _x)O ₃ thin films: The effect of substrate and film thickness. <i>Mechanics of Materials</i> , 2010 , 42, 816-826	3.3	36
199	Electrospinning and multiferroic properties of NiFe ₂ O ₄ /Pb(Zr _{0.52} Ti _{0.48})O ₃ composite nanofibers. <i>Journal of Applied Physics</i> , 2008 , 104, 024115	2.5	36
198	Touching is believing: interrogating halide perovskite solar cells at the nanoscale via scanning probe microscopy. <i>Npj Quantum Materials</i> , 2017 , 2,	5	35
197	Quadratic electromechanical strain in silicon investigated by scanning probe microscopy. <i>Journal of Applied Physics</i> , 2018 , 123, 155104	2.5	34
196	Deterministic, Reversible, and Nonvolatile Low-Voltage Writing of Magnetic Domains in Epitaxial BaTiO ₃ /FeO Heterostructure. <i>ACS Nano</i> , 2018 , 12, 9558-9567	16.7	34
195	Controlling magnetoelectric coupling by nanoscale phase transformation in strain engineered bismuth ferrite. <i>Nanoscale</i> , 2012 , 4, 3175-83	7.7	34
194	The magnetoelectric effects in multiferroic composite nanofibers. <i>Applied Physics Letters</i> , 2009 , 94, 102907	3.4	34

193	Magnetoelectric Green's functions and their application to the inclusion and inhomogeneity problems. <i>International Journal of Solids and Structures</i> , 2002 , 39, 4201-4213	3.1	34
192	Giant enhancement of ferroelectric retention in BiFeO ₃ mixed-phase boundary. <i>Advanced Materials</i> , 2014 , 26, 6335-40	2.4	33
191	Dramatically enhanced effective electrostriction in ferroelectric polymeric composites. <i>Applied Physics Letters</i> , 2002 , 81, 1860-1862	3.4	33
190	Shifting of the morphotropic phase boundary and superior piezoelectric response in Nb-doped Pb(Zr, Ti)O ₃ epitaxial thin films. <i>Acta Materialia</i> , 2009 , 57, 4288-4295	8.4	32
189	The magnetoelectric domains and cross-field switching in multiferroic BiFeO ₃ . <i>Applied Physics Letters</i> , 2008 , 93, 192506	3.4	32
188	Morphotropic Phase Elasticity of Strained BiFeO ₃ . <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600033	4.6	32
187	An artificial intelligence atomic force microscope enabled by machine learning. <i>Nanoscale</i> , 2018 , 10, 21320-21326	7.7	31
186	Epitaxial array of Fe ₃ O ₄ nanodots for high rate high capacity conversion type lithium ion batteries electrode with long cycling life. <i>Nano Energy</i> , 2020 , 74, 104876	17.1	31
185	Piezoelectricity of atomically thin WSe ₂ via laterally excited scanning probe microscopy. <i>Nano Energy</i> , 2018 , 52, 117-122	17.1	30
184	Continuum theory and phase-field simulation of magnetoelectric effects in multiferroic bismuth ferrite. <i>Journal of the Mechanics and Physics of Solids</i> , 2010 , 58, 1613-1627	5	30
183	Phase structure of epitaxial Pb(Zr,Ti)O ₃ thin films on Nb-doped SrTiO ₃ substrates. <i>Applied Physics Letters</i> , 2007 , 91, 222910	3.4	30
182	Uniqueness and Reciprocity Theorems for Linear Thermo-Electro-Magneto-Elasticity. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2003 , 56, 35-43	1	30
181	High pressure effect on the electronic structure and thermoelectric properties of BiCuSeO: first-principles calculations. <i>RSC Advances</i> , 2014 , 4, 54819-54825	3.7	29
180	Nanoscale coaxial focused electrohydrodynamic jet printing. <i>Nanoscale</i> , 2018 , 10, 9867-9879	7.7	28
179	Unraveling the origins of electromechanical response in mixed-phase bismuth ferrite. <i>Physical Review B</i> , 2013 , 88,	3.3	28
178	Strain-engineered orthorhombic-rhombohedral phase boundary in epitaxial bismuth ferrite films. <i>Journal of Applied Physics</i> , 2013 , 113, 183524	2.5	28
177	Fabrication of TiO ₂ Aggregates by Electrospraying and Their Application in Dye-Sensitized Solar Cells. <i>Nanoscience and Nanotechnology Letters</i> , 2011 , 3, 690-696	0.8	28
176	Magnetoelastic domains and magnetic field-induced strains in ferromagnetic shape memory alloys by phase-field simulation. <i>Applied Physics Letters</i> , 2008 , 92, 172504	3.4	28

175	Magnetization rotation and rearrangement of martensite variants in ferromagnetic shape memory alloys. <i>Applied Physics Letters</i> , 2007 , 90, 172504	3.4	28
174	Is thermoelectric conversion efficiency of a composite bounded by its constituents?. <i>Applied Physics Letters</i> , 2013 , 102, 053905	3.4	27
173	Flexible electronic synapse enabled by ferroelectric field effect transistor for robust neuromorphic computing. <i>Applied Physics Letters</i> , 2020 , 117, 092903	3.4	27
172	Highly Flexible and Twistable Freestanding Single Crystalline Magnetite Film with Robust Magnetism. <i>Advanced Functional Materials</i> , 2020 , 30, 2003495	15.6	26
171	A general strategy to prepare high-quality inorganic charge-transporting layers for efficient and stable all-layer-inorganic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18603-18611	13	26
170	Viscoelectroelastic behavior of heterogeneous piezoelectric solids. <i>Journal of Applied Physics</i> , 2001 , 89, 2893-2903	2.5	26
169	Scanning thermo-ionic microscopy for probing local electrochemistry at the nanoscale. <i>Journal of Applied Physics</i> , 2016 , 119, 205110	2.5	26
168	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. <i>Nature Communications</i> , 2019 , 10, 3951	17.4	25
167	Facile surface modification of CH ₃ NH ₃ PbI ₃ films leading to simultaneously improved efficiency and stability of inverted perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6255-6264	13	25
166	Ultrafine LiCoO ₂ powders derived from electrospun nanofibers for Li-ion batteries. <i>Journal of Physics and Chemistry of Solids</i> , 2013 , 74, 322-327	3.9	25
165	Highly Reversible Sodium-ion Storage in NaTi ₂ (PO ₄) ₃ /C Composite Nanofibers. <i>Electrochimica Acta</i> , 2017 , 252, 523-531	6.7	25
164	Synthesis, microstructures, and magnetoelectric couplings of electrospun multiferroic nanofibers. <i>Frontiers of Physics</i> , 2012 , 7, 399-407	3.7	25
163	Space charges and size effects in semiconducting ferroelectric BaTiO ₃ /SrTiO ₃ superlattices. <i>Applied Physics Letters</i> , 2010 , 97, 042905	3.4	25
162	Shear-driven morphotropic phase boundary in epitaxial ferroelectric thin films. <i>Physical Review B</i> , 2011 , 84,	3.3	25
161	The effective pyroelectric and thermal expansion coefficients of ferroelectric ceramics. <i>Mechanics of Materials</i> , 2004 , 36, 949-958	3.3	25
160	Micromechanics of ferroelectric polymer-based electrostrictive composites. <i>Journal of the Mechanics and Physics of Solids</i> , 2004 , 52, 591-615	5	24
159	General Decomposition Pathway of Organic-Inorganic Hybrid Perovskites through an Intermediate Superstructure and its Suppression Mechanism. <i>Advanced Materials</i> , 2020 , 32, e2001107	24	23
158	Piezoelectricity of lead-free (K, Na)NbO ₃ nanoscale single crystals. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9091-9098	7.1	23

157	Domain evolution of tetragonal Pb(ZrxTi1-x)O3 piezoelectric thin films on SrTiO3 (100) surfaces: combined effects of misfit strain and Zr/Ti ratio. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5836-5841	7.1	23
156	The electromechanics of piezoresponse force microscopy for a transversely isotropic piezoelectric medium. <i>Acta Materialia</i> , 2013 , 61, 7020-7033	8.4	23
155	Unconventional phase field simulations of transforming materials with evolving microstructures. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012 , 28, 915-927	2	23
154	A Tailored Nickel Oxide Hole-Transporting Layer to Improve the Long-Term Thermal Stability of Inorganic Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900346	7.1	22
153	Effect of strain on thermoelectric properties of SrTiO3: First-principles calculations. <i>Chemical Physics Letters</i> , 2013 , 586, 159-163	2.5	22
152	The effective thermoelectric properties of core-shell composites. <i>Acta Mechanica</i> , 2014 , 225, 1211-1222	2.1	22
151	Local two-way magnetoelectric couplings in multiferroic composites via scanning probe microscopy. <i>Journal of Applied Physics</i> , 2010 , 108, 054108	2.5	22
150	Domain-engineered Pb(Mg1/3Nb2/3)O3-BbTiO3 crystals: Enhanced piezoelectricity and optimal domain configurations. <i>Applied Physics Letters</i> , 2004 , 84, 3930-3932	3.4	22
149	Mapping intrinsic electromechanical responses at the nanoscale via sequential excitation scanning probe microscopy empowered by deep data. <i>National Science Review</i> , 2019 , 6, 55-63	10.8	22
148	The effects of dual doping on the thermoelectric properties of Ca3-xMxCo4-yCuyO9 (M=Na, La). <i>Journal of Alloys and Compounds</i> , 2012 , 526, 139-144	5.7	21
147	One-dimensional equations for piezoelectromagnetic beams and magnetoelectric effects in fibers. <i>Smart Materials and Structures</i> , 2009 , 18, 095026	3.4	21
146	Engineering domain configurations for enhanced piezoelectricity in barium titanate single crystals. <i>Applied Physics Letters</i> , 2006 , 88, 032904	3.4	21
145	Nanomesa and nanowell formation in Langmuir-Blodgett polyvinylidene fluoride trifluoroethylene copolymer films. <i>Applied Physics Letters</i> , 2005 , 87, 213116	3.4	21
144	High fidelity direct measurement of local electrocaloric effect by scanning thermal microscopy. <i>Nano Energy</i> , 2020 , 67, 104203	17.1	21
143	Tuning Fe concentration in epitaxial gallium ferrite thin films for room temperature multiferroic properties. <i>Acta Materialia</i> , 2018 , 145, 488-495	8.4	20
142	Non-equilibrium microstructure of Li1.4Al0.4Ti1.6(PO4)3 superionic conductor by spark plasma sintering for enhanced ionic conductivity. <i>Nano Energy</i> , 2018 , 51, 19-25	17.1	20
141	Sponge-like porous TiO2/ZnO nanodonuts for high efficiency dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015 , 280, 373-378	8.9	20
140	The effect of biaxial texture on the effective electromechanical constants of polycrystalline barium titanate and lead titanate thin films. <i>Acta Materialia</i> , 2006 , 54, 3657-3663	8.4	20

139	Highly Robust Flexible Ferroelectric Field Effect Transistors Operable at High Temperature with Low-Power Consumption. <i>Advanced Functional Materials</i> , 2020 , 30, 1906131	15.6	20
138	Nanoporous carbon leading to the high performance of a Na ₃ V ₂ O ₂ (PO ₄) ₂ F@carbon/graphene cathode in a sodium ion battery. <i>CrystEngComm</i> , 2017 , 19, 4287-4293	3.3	19
137	Quantitative nanoscale mapping of three-phase thermal conductivities in filled skutterudites via scanning thermal microscopy. <i>National Science Review</i> , 2018 , 5, 59-69	10.8	19
136	High sensitivity piezomagnetic force microscopy for quantitative probing of magnetic materials at the nanoscale. <i>Nanoscale</i> , 2013 , 5, 5747-51	7.7	19
135	Fracture analysis of ferroelectric single crystals: Domain switching near crack tip and electric field induced crack propagation. <i>Journal of the Mechanics and Physics of Solids</i> , 2013 , 61, 114-130	5	19
134	Electromechanical analysis of direct and converse flexoelectric effects under a scanning probe tip. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 142, 104020	5	19
133	Electromechanical Coupling of Murine Lung Tissues Probed by Piezoresponse Force Microscopy. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1827-1835	5.5	18
132	Enhanced piezoelectric performance of composite sol-gel thick films evaluated using piezoresponse force microscopy. <i>Journal of Applied Physics</i> , 2013 , 113, 187205	2.5	18
131	Size dependent domain configuration and electric field driven evolution in ultrathin ferroelectric films: A phase field investigation. <i>Journal of Applied Physics</i> , 2010 , 107, 034107	2.5	18
130	Nanopolar structures and local ferroelectricity of Sr _{0.61} Ba _{0.39} Nb ₂ O ₆ relaxor crystal across Curie temperature by piezoresponse force microscopy. <i>Journal of Applied Physics</i> , 2009 , 106, 124106	2.5	18
129	Atomic Visualization of the Phase Transition in Highly Strained BiFeO ₃ Thin Films with Excellent Pyroelectric Response. <i>Nano Energy</i> , 2015 , 17, 72-81	17.1	17
128	Competing Interface and Bulk Effect-Driven Magnetoelectric Coupling in Vertically Aligned Nanocomposites. <i>Advanced Science</i> , 2019 , 6, 1901000	13.6	17
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