

Ce-Wen Nan

List of Publications by Year in Descending Order

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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.

318
papers

21,938
citations

73
h-index

141
g-index

344
ext. papers

26,226
ext. citations

10.1
avg, IF

7.28
L-index

#	Paper	IF	Citations
318	Phase-Field Simulations of Tunable Polar Topologies in Lead-Free Ferroelectric/Paraelectric Multilayers with Ultrahigh Energy Storage Performance.. <i>Advanced Materials</i> , 2022 , e2108772	24	6
317	Significantly improved interface between PVDF-based polymer electrolyte and lithium metal via thermal-electrochemical treatment. <i>Energy Storage Materials</i> , 2022 , 46, 452-460	19.4	2
316	New materials from non-intuitive composite effects. <i>International Journal of Materials Research</i> , 2022 , 94, 1148-1152	0.5	
315	Microscopic physical origin of polarization induced large tunneling electroresistance in tetragonal-phase BiFeO ₃ . <i>Acta Materialia</i> , 2022 , 225, 117564	8.4	0
314	Aqueous MXene/Xanthan Gum Hybrid Inks for Screen-Printing Electromagnetic Shielding, Joule Heater, and Piezoresistive Sensor.. <i>Small</i> , 2022 , e2107087	11	10
313	Controllable electrical, magnetoelectric and optical properties of BiFeO ₃ via domain engineering. <i>Progress in Materials Science</i> , 2022 , 127, 100943	42.2	4
312	A Cross-Linked Poly(Ethylene Oxide)-Based Electrolyte for All-Solid-State Lithium Metal Batteries With Long Cycling Stability. <i>Frontiers in Materials</i> , 2022 , 9,	4	2
311	Perspectives on domain engineering for dielectric energy storage thin films. <i>Applied Physics Letters</i> , 2022 , 120, 150501	3.4	1
310	Long decay length of magnon-polarons in BiFeO/LaSrMnO heterostructures.. <i>Nature Communications</i> , 2021 , 12, 7258	17.4	2
309	Compressive Strain-Tuned Epitaxial Nature and Physical Properties of Double-Perovskite PrBaCo ₂ O _{5.5} + δ Thin Films. <i>Crystal Growth and Design</i> , 2021 , 21, 6802-6809	3.5	
308	Tuning ferroelectricity of polymer blends for flexible electrical energy storage applications. <i>Science China Materials</i> , 2021 , 64, 1642-1652	7.1	3
307	Toroidal polar topology in strained ferroelectric polymer. <i>Science</i> , 2021 , 371, 1050-1056	33.3	24
306	High thermoelectric performance of high-mobility Ga-doped ZnO films via homogenous interface design. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3992-3999	3.8	0
305	Influence of Crystallinity of Lithium Thiophosphate Solid Electrolytes on the Performance of Solid-State Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100654	21.8	25
304	Enhanced CO ₂ Reduction Performance of BiCuSeO-Based Hybrid Catalysts by Synergetic Photo-Thermoelectric Effect. <i>Advanced Functional Materials</i> , 2021 , 31, 2105001	15.6	1
303	Lithium Argyrodite as Solid Electrolyte and Cathode Precursor for Solid-State Batteries with Long Cycle Life. <i>Advanced Energy Materials</i> , 2021 , 11, 2101370	21.8	20
302	Interfacial challenges for all-solid-state batteries based on sulfide solid electrolytes. <i>Journal of Materiomics</i> , 2021 , 7, 209-218	6.7	30

301	Electrical and thermal transport behaviours of high-entropy perovskite thermoelectric oxides. <i>Journal of Advanced Ceramics</i> , 2021 , 10, 377-384	10.7	21
300	Promoting Metamagnetic Transition by Interphase Magnetic Coupling. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2000094	4.3	0
299	Inkjet Printing of Perovskite Nanosheets for Microcapacitors. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100402	6.4	4
298	Designing polymer nanocomposites with high energy density using machine learning. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	9
297	Degeneration of Key Structural Components Resulting in Ageing of Supercapacitors and the Related Chemical Ageing Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39379-39393	9.5	
296	Magnetoelectric phase transition driven by interfacial-engineered Dzyaloshinskii-Moriya interaction. <i>Nature Communications</i> , 2021 , 12, 5453	17.4	4
295	Ultrahigh energy storage in superparaelectric relaxor ferroelectrics. <i>Science</i> , 2021 , 374, 100-104	33.3	49
294	Enhanced electric resistivity and dielectric energy storage by vacancy defect complex. <i>Energy Storage Materials</i> , 2021 , 42, 836-844	19.4	5
293	Polarization-switching pathway determined electrical transport behaviors in rhombohedral BiFeO thin films. <i>Nanoscale</i> , 2021 , 13, 17746-17753	7.7	1
292	Spin wave propagation in a ferrimagnetic thin film with perpendicular magnetic anisotropy. <i>Applied Physics Letters</i> , 2020 , 117, 232407	3.4	7
291	High-throughput data-driven interface design of high-energy-density polymer nanocomposites. <i>Journal of Materiomics</i> , 2020 , 6, 573-581	6.7	9
290	Organic-Organic Composite Electrolyte Enables Ultralong Cycle Life in Solid-State Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24837-24844	9.5	19
289	Electric field controllable high-spin SrRuO ₃ driven by a solid ionic junction. <i>Physical Review B</i> , 2020 , 101,	3.3	12
288	High Cycling Stability for Solid-State Li Metal Batteries via Regulating Solvation Effect in Poly(Vinylidene Fluoride)-Based Electrolytes. <i>Batteries and Supercaps</i> , 2020 , 3, 876-883	5.6	25
287	An alternating multilayer architecture boosts ultrahigh energy density and high discharge efficiency in polymer composites. <i>RSC Advances</i> , 2020 , 10, 5886-5893	3.7	6
286	Regulating Uniform Li Plating/Stripping via Dual-Conductive Metal-Organic Frameworks for High-Rate Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2000786	15.6	71
285	Response to Comment on "Self-Suppression of Lithium Dendrite in All-Solid-State Lithium Metal Batteries with Poly(vinylidene difluoride)-Based Solid Electrolytes". <i>Advanced Materials</i> , 2020 , 32, e2000026	21.6	24
284	Solvent-Free Synthesis of Thin, Flexible, Nonflammable Garnet-Based Composite Solid Electrolyte for All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903376	21.8	168

283	Mobile Ions in Composite Solids. <i>Chemical Reviews</i> , 2020 , 120, 4169-4221	68.1	105
282	Multiferroic Magnetoelectric Composites: Historical Perspective, Status, and Future Directions 2020 , 191-293		0
281	Ultrahigh Breakdown Strength and Improved Energy Density of Polymer Nanocomposites with Gradient Distribution of Ceramic Nanoparticles. <i>Advanced Functional Materials</i> , 2020 , 30, 1906112	15.6	65
280	Rheological Behavior and Thermal Conductivities of Emulsion-Based Thermal Pastes. <i>Journal of Electronic Materials</i> , 2020 , 49, 2100-2109	1.9	1
279	High-conductivity free-standing Li6PS5Cl/poly(vinylidene difluoride) composite solid electrolyte membranes for lithium-ion batteries. <i>Journal of Materiomics</i> , 2020 , 6, 70-76	6.7	19
278	Thermoelectric Performance Enhancement of Vanadium Doped n-Type In2O3 Ceramics via Carrier Engineering and Phonon Suppression. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1552-1558	6.1	9
277	Li2CO3: A Critical Issue for Developing Solid Garnet Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 252-262	20.1	96
276	Tailoring magnetic order via atomically stacking 3d/5d electrons to achieve high-performance spintronic devices. <i>Applied Physics Reviews</i> , 2020 , 7, 011401	17.3	10
275	Stabilization of ferroelastic charged domain walls in self-assembled BiFeO3 nanoislands. <i>Journal of Applied Physics</i> , 2020 , 128, 124103	2.5	2
274	Three-dimensional structured asymmetric electrolytes for high interface stability and fast Li-ion transport in solid-state Li-metal batteries. <i>Materials Today Energy</i> , 2020 , 18, 100522	7	7
273	Large Switchable Photoconduction within 2D Potential Well of a Layered Ferroelectric Heterostructure. <i>Advanced Materials</i> , 2020 , 32, e2003033	24	12
272	Dielectric films for high performance capacitive energy storage: multiscale engineering. <i>Nanoscale</i> , 2020 , 12, 19582-19591	7.7	32
271	High Thermoelectric Performance of AgSbPbSe Prepared by Fast Nonequilibrium Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41333-41341	9.5	4
270	Boron nitride/agarose hydrogel composites with high thermal conductivities. <i>Rare Metals</i> , 2020 , 39, 375-382	5.9	11
269	Free-standing sulfide/polymer composite solid electrolyte membranes with high conductance for all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2020 , 25, 145-153	19.4	46
268	Single-atom-layer traps in a solid electrolyte for lithium batteries. <i>Nature Communications</i> , 2020 , 11, 18287.4	17.4	17
267	Super-elastic ferroelectric single-crystal membrane with continuous electric dipole rotation. <i>Science</i> , 2019 , 366, 475-479	33.3	127
266	An in Situ-Formed Mosaic LiSn/LiF Interface Layer for High-Rate and Long-Life Garnet-Based Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34939-34947	9.5	32

265	Physical and chemical strains co-tuned magnetic properties of double perovskite PrBaMn ₂ O _{5.5} + δ epitaxial films. <i>Applied Physics Letters</i> , 2019 , 115, 081903	3.4	2
264	Opportunities and challenges for magnetoelectric devices. <i>APL Materials</i> , 2019 , 7, 080905	5.7	42
263	Minimizing Voltage Loss in Efficient All-Inorganic CsPbI ₂ Br Perovskite Solar Cells through Energy Level Alignment. <i>ACS Energy Letters</i> , 2019 , 4, 2491-2499	20.1	48
262	Microstructure Manipulation for Enhancing the Resistance of Garnet-Type Solid Electrolytes to "Short Circuit" by Li Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5928-5937	9.5	28
261	Complex electronic structure and compositing effect in high performance thermoelectric BiCuSeO. <i>Nature Communications</i> , 2019 , 10, 2814	17.4	46
260	Geometry confined polar vortex domains in self-assembled BiFeO ₃ nano-islands. <i>Materials Research Letters</i> , 2019 , 7, 399-404	7.4	3
259	Robust polarization switching in self-assembled BiFeO ₃ nanoislands with quad-domain structures. <i>Acta Materialia</i> , 2019 , 175, 324-330	8.4	14
258	Polymer-infiltrated layered silicates for dental restorative materials. <i>Rare Metals</i> , 2019 , 38, 1003-1014	5.5	2
257	Ferroelectric Photodetector with High Current on/off Ratio (~1 \times 10 ⁴ %) in Self-Assembled Topological Nanoislands. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 862-868	4	22
256	Phase-separation-driven formation of Nickel/Cobalt oxide nanotubes as high-capacity anode materials for lithium-ion batteries. <i>Materials Research Letters</i> , 2019 , 7, 368-375	7.4	3
255	Synergy of micro-/mesoscopic interfaces in multilayered polymer nanocomposites induces ultrahigh energy density for capacitive energy storage. <i>Nano Energy</i> , 2019 , 62, 220-229	17.1	84
254	Phase-field modeling and machine learning of electric-thermal-mechanical breakdown of polymer-based dielectrics. <i>Nature Communications</i> , 2019 , 10, 1843	17.4	97
253	Polymer Nanocomposites: Polymer Nanocomposites with Interpenetrating Gradient Structure Exhibiting Ultrahigh Discharge Efficiency and Energy Density (Adv. Energy Mater. 15/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970047	21.8	1
252	Current-controlled propagation of spin waves in antiparallel, coupled domains. <i>Nature Nanotechnology</i> , 2019 , 14, 691-697	28.7	43
251	Perspective: voltage control of magnetization in multiferroic heterostructures. <i>National Science Review</i> , 2019 , 6, 621-624	10.8	11
250	Non-intuitive concomitant enhancement of dielectric permittivity, breakdown strength and energy density in percolative polymer nanocomposites by trace Ag nanodots. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15198-15206	13	36
249	Solid Garnet Batteries. <i>Joule</i> , 2019 , 3, 1190-1199	27.8	230
248	Lattice and spin dynamics in multiferroic BiFeO and MnO. <i>National Science Review</i> , 2019 , 6, 642-652	10.8	6

247	Oxygen vacancy-enriched MoO _{3-x} nanobelts for asymmetric supercapacitors with excellent room/low temperature performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13205-13214	13	64
246	Intercalated Electrolyte with High Transference Number for Dendrite-Free Solid-State Lithium Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1901047	15.6	178
245	Self-Suppression of Lithium Dendrite in All-Solid-State Lithium Metal Batteries with Poly(vinylidene difluoride)-Based Solid Electrolytes. <i>Advanced Materials</i> , 2019 , 31, e1806082	24	169
244	Polymer Nanocomposites with Interpenetrating Gradient Structure Exhibiting Ultrahigh Discharge Efficiency and Energy Density. <i>Advanced Energy Materials</i> , 2019 , 9, 1803411	21.8	84
243	Solid polymer electrolyte soft interface layer with 3D lithium anode for all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019 , 17, 309-316	19.4	185
242	Free-standing Reduced Graphene Oxide/MoO _{3-x} Composite Film with High Performance for Flexible Supercapacitors. <i>ChemistrySelect</i> , 2019 , 4, 9165-9173	1.8	5
241	Ultrahigh-energy density lead-free dielectric films via polymorphic nanodomain design. <i>Science</i> , 2019 , 365, 578-582	33.3	353
240	Multiferroics: a beautiful but challenging multi-polar world. <i>National Science Review</i> , 2019 , 6, 620	10.8	13
239	Acidic aqueous solution switching of magnetism in BiFeO ₃ /La _{1-x} Sr _x MnO ₃ heterostructures. <i>Journal of Applied Physics</i> , 2019 , 126, 075301	2.5	1
238	Stabilizing Polyether Electrolyte with a 4 V Metal Oxide Cathode by Nanoscale Interfacial Coating. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28774-28780	9.5	19
237	Synergistical Enhancement of Thermoelectric Properties in n-Type Bi ₂ O ₂ Se by Carrier Engineering and Hierarchical Microstructure. <i>Advanced Energy Materials</i> , 2019 , 9, 1900354	21.8	35
236	Solid-State Lithium Batteries: Intercalated Electrolyte with High Transference Number for Dendrite-Free Solid-State Lithium Batteries (Adv. Funct. Mater. 28/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970196	15.6	3
235	High-performance Li ₆ PS ₅ Cl-based all-solid-state lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18612-18618	13	23
234	Two Birds with One Stone: Metal-Organic Framework Derived Micro-/Nanostructured Ni ₂ P/Ni Hybrids Embedded in Porous Carbon for Electrocatalysis and Energy Storage. <i>Advanced Functional Materials</i> , 2019 , 29, 1901510	15.6	82
233	Emerging ferromagnetic phase in self-assembled mixed valence manganite nanowires. <i>Applied Physics Letters</i> , 2019 , 115, 162405	3.4	
232	Self-assembly growth of a multiferroic topological nanoisland array. <i>Nanoscale</i> , 2019 , 11, 20514-20521	7.7	3
231	Modulating interfacial charge distribution and compatibility boosts high energy density and discharge efficiency of polymer nanocomposites.. <i>RSC Advances</i> , 2019 , 9, 35990-35997	3.7	5
230	Hidden metal-insulator transition in manganites synthesized via a controllable oxidation. <i>Science China Materials</i> , 2019 , 62, 577-585	7.1	6

229	Ionic Modulation of Interfacial Magnetism in Light Metal/Ferromagnetic Insulator Layered Nanostructures. <i>Advanced Functional Materials</i> , 2019 , 29, 1805592	15.6	9
228	Electrochemical performance of Li-rich cathode material, 0.3Li ₂ MnO ₃ •0.7LiMn _{1/3} Ni _{1/3} Co _{1/3} O ₂ microspheres with F-doping. <i>Rare Metals</i> , 2019 , 38, 189-198	5.5	27
227	Flexible Robust and High-Density FeRAM from Array of Organic Ferroelectric Nano-Lamellae by Self-Assembly. <i>Advanced Science</i> , 2019 , 6, 1801931	13.6	21
226	BiCuSeO as state-of-the-art thermoelectric materials for energy conversion: from thin films to bulks. <i>Rare Metals</i> , 2018 , 37, 259-273	5.5	22
225	High Capacity and Superior Cyclic Performances of All-Solid-State Lithium Batteries Enabled by a Glass-Ceramics Solo. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10029-10035	9.5	31
224	Thermal Driven Giant Spin Dynamics at Three-Dimensional Heteroepitaxial Interface in NiZnFeO/BaTiO-Pillar Nanocomposites. <i>ACS Nano</i> , 2018 , 12, 3751-3758	16.7	19
223	Strain, temperature, and electric-field effects on the phase transition and piezoelectric responses of K _{0.5} Na _{0.5} NbO ₃ thin films. <i>Journal of Applied Physics</i> , 2018 , 123, 154106	2.5	19
222	Phase-Field Model of Electrothermal Breakdown in Flexible High-Temperature Nanocomposites under Extreme Conditions. <i>Advanced Energy Materials</i> , 2018 , 8, 1800509	21.8	56
221	Nanoscale control of stripe-ordered magnetic domain walls by vertical spin transfer torque in La _{0.67} Sr _{0.33} MnO ₃ film. <i>Applied Physics Letters</i> , 2018 , 112, 072408	3.4	9
220	Generation of hydrogen under visible light irradiation with enhanced photocatalytic activity of Bi ₂ WO ₆ /Cu _{1.8} Se for organic pollutants under Vis-NIR light reign. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3015-3025	3.8	14
219	Spatially Resolved Electric-Field Manipulation of Magnetism for CoFeB Mesoscopic Discs on Ferroelectrics. <i>Advanced Functional Materials</i> , 2018 , 28, 1706448	15.6	26
218	PEO/garnet composite electrolytes for solid-state lithium batteries: From ceramic-in-polymer to polymer-in-ceramic. <i>Nano Energy</i> , 2018 , 46, 176-184	17.1	672
217	Oxygen Vacancy Dynamics at Room Temperature in Oxide Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5107-5113	9.5	7
216	Lattice Dynamics and Thermal Conductivity in CuZnCo SnSe. <i>Inorganic Chemistry</i> , 2018 , 57, 6051-6056	5.1	11
215	Boosting the thermoelectric performance of Bi ₂ O ₂ Se by isovalent doping. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 4634-4644	3.8	26
214	Drawing a Soft Interface: An Effective Interfacial Modification Strategy for Garnet-Type Solid-State Li Batteries. <i>ACS Energy Letters</i> , 2018 , 3, 1212-1218	20.1	236
213	Polymer Nanocomposites with Ultrahigh Energy Density and High Discharge Efficiency by Modulating their Nanostructures in Three Dimensions. <i>Advanced Materials</i> , 2018 , 30, e1707269	24	157
212	High energy density and efficiency achieved in nanocomposite film capacitors via structure modulation. <i>Applied Physics Letters</i> , 2018 , 112, 103902	3.4	26

211	Synergistically optimizing electrical and thermal transport properties of Bi ₂ O ₂ Se ceramics by Te-substitution. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 326-333	3.8	39
210	Hierarchical porous Li ₄ Ti ₅ O ₁₂ ∕TiO ₂ composite anode materials with pseudocapacitive effect for high-rate and low-temperature applications. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14339-14351	13	45
209	Improved Structural Reversibility and Cycling Stability of Li ₂ MnSiO ₄ Cathode Material by the Pillar Effect of [TiO _x] Polyanions. <i>ChemistrySelect</i> , 2018 , 3, 4047-4057	1.8	1
208	Controllable conductive readout in self-assembled, topologically confined ferroelectric domain walls. <i>Nature Nanotechnology</i> , 2018 , 13, 947-952	28.7	104
207	Magnetic Anisotropy: Ionic Liquid Gating Control of Spin Reorientation Transition and Switching of Perpendicular Magnetic Anisotropy (Adv. Mater. 30/2018). <i>Advanced Materials</i> , 2018 , 30, 1870223	24	
206	Electric Field Writing of Ferroelectric Nano-Domains Near 71° Domain Walls with Switchable Interfacial Conductivity. <i>Annalen Der Physik</i> , 2018 , 530, 1800130	2.6	5
205	Giant energy density and high efficiency achieved in bismuth ferrite-based film capacitors via domain engineering. <i>Nature Communications</i> , 2018 , 9, 1813	17.4	237
204	Low voltage induced reversible magnetoelectric coupling in Fe ₃ O ₄ thin films for voltage tunable spintronic devices. <i>Materials Horizons</i> , 2018 , 5, 991-999	14.4	18
203	Ionic Modulation of the Interfacial Magnetism in a Bilayer System Comprising a Heavy Metal and a Magnetic Insulator for Voltage-Tunable Spintronic Devices. <i>Advanced Materials</i> , 2018 , 30, e1802902	24	17
202	New horizons for inorganic solid state ion conductors. <i>Energy and Environmental Science</i> , 2018 , 11, 1945-1976	39.6	601
201	Superior Energy Storage Performances of Polymer Nanocomposites via Modification of Filler/Polymer Interfaces. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800096	4.6	117
200	High-Throughput Phase-Field Design of High-Energy-Density Polymer Nanocomposites. <i>Advanced Materials</i> , 2018 , 30, 1704380	24	171
199	Enhanced electrochemical performance of bulk type oxide ceramic lithium batteries enabled by interface modification. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4649-4657	13	76
198	Spintronics: Ionic Modulation of the Interfacial Magnetism in a Bilayer System Comprising a Heavy Metal and a Magnetic Insulator for Voltage-Tunable Spintronic Devices (Adv. Mater. 40/2018). <i>Advanced Materials</i> , 2018 , 30, 1870302	24	
197	High-performance all-solid-state lithium-sulfur batteries with sulfur/carbon nano-hybrids in a composite cathode. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23345-23356	13	30
196	Modeling and predicting responses of magnetoelectric materials. <i>MRS Bulletin</i> , 2018 , 43, 829-833	3.2	2
195	High-Conductivity Argyrodite LiPSCl Solid Electrolytes Prepared via Optimized Sintering Processes for All-Solid-State Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42279-42285	8.5	94
194	Understanding and predicting geometrical constraint ferroelectric charged domain walls in a BiFeO ₃ island via phase-field simulations. <i>Applied Physics Letters</i> , 2018 , 113, 222902	3.4	13

193	Enhancements of dielectric and energy storage performances in lead-free films with sandwich architecture. <i>Journal of the American Ceramic Society</i> , 2018 , 102, 936	3.8	8
192	Switching the chirality of a magnetic vortex deterministically with an electric field. <i>Materials Research Letters</i> , 2018 , 6, 669-675	7.4	9
191	Effects of Li _{6.75} La ₃ Zr _{1.75} Ta _{0.25} O ₁₂ on chemical and electrochemical properties of polyacrylonitrile-based solid electrolytes. <i>Solid State Ionics</i> , 2018 , 327, 32-38	3.3	29
190	Enhancing the thermoelectric performance of ZnO epitaxial films by Ga doping and thermal tuning. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24128-24135	13	25
189	Water printing of ferroelectric polarization. <i>Nature Communications</i> , 2018 , 9, 3809	17.4	44
188	Ionic Liquid Gating Control of Spin Reorientation Transition and Switching of Perpendicular Magnetic Anisotropy. <i>Advanced Materials</i> , 2018 , 30, e1801639	24	33
187	FeVSb-based amorphous films with ultra-low thermal conductivity and high ZT: a potential material for thermoelectric generators. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11435-11445	13	4
186	Ferromagnetism and matrix-dependent charge transfer in strained LaMnO ₃ /LaCoO ₃ superlattices. <i>Materials Research Letters</i> , 2018 , 6, 501-507	7.4	11
185	Lithium-Salt-Rich PEO/LiLaTiO Interpenetrating Composite Electrolyte with Three-Dimensional Ceramic Nano-Backbone for All-Solid-State Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24791-24798	9.5	157
184	Enhanced thermoelectric performance of n-type Bi ₂ O ₂ Se by Cl-doping at Se site. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1494-1501	3.8	44
183	BiFeO ₃ /SrTiO ₃ thin film as a new lead-free relaxor-ferroelectric capacitor with ultrahigh energy storage performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5920-5926	13	158
182	Addressing the Interface Issues in All-Solid-State Bulk-Type Lithium Ion Battery via an All-Composite Approach. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9654-9661	9.5	96
181	Mechanical performance of polymer-infiltrated zirconia ceramics. <i>Journal of Dentistry</i> , 2017 , 58, 60-66	4.8	17
180	A magnetic glass state over the first-order ferromagnetic-to-antiferromagnetic transition in FeRh film. <i>Materials Research Letters</i> , 2017 , 5, 329-334	7.4	10
179	The Gadolinium (Gd) and Tin (Sn) Co-doped BiFeO Nanoparticles as New Solar Light Active Photocatalyst. <i>Scientific Reports</i> , 2017 , 7, 42493	4.9	76
178	Understanding and designing magnetoelectric heterostructures guided by computation: progresses, remaining questions, and perspectives. <i>Npj Computational Materials</i> , 2017 , 3,	10.9	78
177	Strain modulated ferromagnetic to antiferromagnetic transition in FeRh/BaTiO ₃ (001) heterostructures. <i>Journal of Applied Physics</i> , 2017 , 121, 194101	2.5	14
176	Self-etching NiTi hydroxides@NiTi nanowire arrays with enhancing ultrahigh areal capacitance for flexible thin-film supercapacitors. <i>Rare Metals</i> , 2017 , 36, 691-697	5.5	8

175	Electric-field control of tri-state phase transformation with a selective dual-ion switch. <i>Nature</i> , 2017 , 546, 124-128	50.4	388
174	Ultrathin N-doped carbon-coated TiO ₂ coaxial nanofibers as anodes for lithium ion batteries. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2939-2947	3.8	11
173	Enhancing thermoelectric performance in hierarchically structured BiCuSeO by increasing bond covalency and weakening carrier-phonon coupling. <i>Energy and Environmental Science</i> , 2017 , 10, 1590-1599	35.4	94
172	Spatially Resolved Ferroelectric Domain-Switching-Controlled Magnetism in CoFeB/Pb(MgNb)TiO ₃ Multiferroic Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2642-2649	9.5	32
171	Space charge effects on the dielectric response of polymer nanocomposites. <i>Applied Physics Letters</i> , 2017 , 111, 092901	3.4	22
170	Synergistic Coupling between LiLaZrTaO and Poly(vinylidene fluoride) Induces High Ionic Conductivity, Mechanical Strength, and Thermal Stability of Solid Composite Electrolytes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13779-13785	16.4	452
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26	Polarization of High-Permittivity Dielectric NiO-Based Ceramics. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 1808-1811	3.8	33
25	Hydrothermal synthesis and dielectric properties of lanthanum titanate ceramics. <i>Central South University</i> , 2005 , 12, 251-254		1
24	Coupled magnetodielectric properties of laminated PbZr _{0.53} Ti _{0.47} O ₃ /NiFe ₂ O ₄ ceramics. <i>Journal of Applied Physics</i> , 2004 , 95, 5685-5690	2.5	122
23	High permittivity Li and Al doped NiO ceramics. <i>Applied Physics Letters</i> , 2004 , 85, 5664-5666	3.4	73
22	Inverse Problem for Composites with Imperfect Interface: Determination of Interfacial Thermal Resistance, Thermal Conductivity of Constituents, and Microstructural Parameters. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 848-854	3.8	62
21	Rapid Prototyping of Piezoelectric Ceramics via Selective Laser Sintering and Gelcasting. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 17-22	3.8	34
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19	Dependence of giant magnetoelectric effect on interfacial bonding for multiferroic laminated composites of rare-earth-iron alloys and lead zirconate titanate. <i>Journal of Applied Physics</i> , 2004 , 95, 2660-2664	2.5	48
18	Large high-frequency magnetoelectric response in laminated composites of piezoelectric ceramics, rare-earth iron alloys and polymer. <i>Applied Physics Letters</i> , 2004 , 84, 3516-3518	3.4	102
17	Solvothermal preparation and thermoelectric properties of ternary SnBiTe alloy. <i>Physica Status Solidi A</i> , 2003 , 199, 265-271		6
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10	Physics of inhomogeneous inorganic materials. <i>Progress in Materials Science</i> , 1993 , 37, 1-116	42.2	865
9	Multiscale approaches to thermoelectric materials and devices		1
8	Seeking New Layered Oxyselenides with Promising Thermoelectric Performance. <i>Advanced Functional Materials</i> , 2113164	15.6	0
7	A Valence Gradient Protective Layer for Dendrite-Free and Highly Stable Lithium Metal Anodes. <i>Advanced Energy Materials</i> , 2103332	21.8	3
6	Challenges, interface engineering, and processing strategies toward practical sulfide-based all-solid-state lithium batteries. <i>Informa Materials</i> ,	23.1	9
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