

Yang Shen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Synergistic Coupling between $\text{Li}_{6.75}\text{La}_3\text{Zr}_{1.75}\text{Ta}_{0.25}\text{O}_{12}$ 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.	13.7	698
2	Ultra-high energy density lead-free dielectric films via polymorphic nanodomain design. <i>Science</i> , 2019, 365, 578-582.	12.6	662
3	Giant Energy Density and Improved Discharge Efficiency of Solution-Processed Polymer Nanocomposites for Dielectric Energy Storage. <i>Advanced Materials</i> , 2016, 28, 2055-2061.	21.0	534
4	Polymer-Based Dielectrics with High Energy Storage Density. <i>Annual Review of Materials Research</i> , 2015, 45, 433-458.	9.3	513
5	Ultra-high Energy Density of Polymer Nanocomposites Containing BaTiO_3 @ TiO_2 Nanofibers by Atomic-Scale Interface Engineering. <i>Advanced Materials</i> , 2015, 27, 819-824.	21.0	503
6	Giant energy density and high efficiency achieved in bismuth ferrite-based film capacitors via domain engineering. <i>Nature Communications</i> , 2018, 9, 1813.	12.8	408
7	Topological Structure Modulated Polymer Nanocomposites Exhibiting Highly Enhanced Dielectric Strength and Energy Density. <i>Advanced Functional Materials</i> , 2014, 24, 3172-3178.	14.9	371
8	Improving the dielectric constants and breakdown strength of polymer composites: effects of the shape of the BaTiO_3 nano-inclusions, surface modification and polymer matrix. <i>Journal of Materials Chemistry</i> , 2012, 22, 16491.	6.7	341
9	Self-Suppression of Lithium Dendrite in All-Solid-State Lithium Metal Batteries with Poly(vinylidene fluoride) Nanocomposites. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10784-10795.	21.0	295
10	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.	19.5	284
11	Enhanced dielectric and ferroelectric properties induced by dopamine-modified BaTiO_3 nanofibers in flexible poly(vinylidene fluoride-trifluoroethylene) nanocomposites. <i>Journal of Materials Chemistry</i> , 2012, 22, 8063.	6.7	282
12	High-Energy-Density Ferroelectric Polymer Nanocomposites for Capacitive Energy Storage: Enhanced Breakdown Strength and Improved Discharge Efficiency. <i>Materials Today</i> , 2019, 29, 49-67.	14.2	262
13	High-Throughput Phase-Field Design of High-Energy-Density Polymer Nanocomposites. <i>Advanced Materials</i> , 2018, 30, 1704380.	21.0	254
14	Lithium-Salt-Rich $\text{PEO/Li}_{0.3}\text{La}_{0.557}\text{TiO}_3$ 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.	8.0	230
15	Polymer Nanocomposites with Ultra-high Energy Density and High Discharge Efficiency by Modulating their Nanostructures in Three Dimensions. <i>Advanced Materials</i> , 2018, 30, e1707269.	21.0	226
16	BiFeO_3 @ SrTiO_3 thin film as a new lead-free relaxor-ferroelectric capacitor with ultra-high energy storage performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5920-5926.	10.3	218
17	Nanocomposite Membranes Enhance Bone Regeneration Through Restoring Physiological Electric Microenvironment. <i>ACS Nano</i> , 2016, 10, 7279-7286.	14.6	208
18	Carbon Nanotube Array/Polymer Core/Shell Structured Composites with High Dielectric Permittivity, Low Dielectric Loss, and Large Energy Density. <i>Advanced Materials</i> , 2011, 23, 5104-5108.	21.0	204

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19	Phase-field modeling and machine learning of electric-thermal-mechanical breakdown of polymer-based dielectrics. <i>Nature Communications</i> , 2019, 10, 1843.	12.8	174
20	High-Conductivity Argyrodite $\text{Li}_6\text{PS}_5\text{Cl}$ Solid Electrolytes Prepared via Optimized Sintering Processes for All-Solid-State Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42279-42285.	8.0	170
21	Superior Energy Storage Performances of Polymer Nanocomposites via Modification of Filler/Polymer Interfaces. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800096.	3.7	170
22	Achieving High Energy Density in PVDF-Based Polymer Blends: Suppression of Early Polarization Saturation and Enhancement of Breakdown Strength. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27236-27242.	8.0	158
23	Negatively Charged Nanosheets Significantly Enhance the Energy Storage Capability of Polymer-Based Nanocomposites. <i>Advanced Materials</i> , 2020, 32, e1907227.	21.0	156
24	Achieving high capacity in bulk-type solid-state lithium ion battery based on $\text{Li}_{6.75}\text{La}_3\text{Zr}_{1.75}\text{Ta}_{0.25}\text{O}_{12}$ electrolyte: Interfacial resistance. <i>Journal of Power Sources</i> , 2016, 324, 349-357.	7.8	154
25	Largely enhanced energy density in flexible $\text{P}(\text{VDF-TrFE})$ nanocomposites by surface-modified electrospun BaSrTiO_3 fibers. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1688-1693.	10.3	151
26	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.	16.0	144
27	Effect of sintering temperature on structure and ionic conductivity of $\text{Li}_{7-2x}\text{La}_3\text{Zr}_2\text{O}_{12}\text{A}^{0.5x}$ ($x=0.5-0.7$) ceramics. <i>Solid State Ionics</i> , 2011, 204-205, 41-45.	2.7	142
28	Significant enhancement in the visible light photocatalytic properties of BiFeO_3 -graphene nanohybrids. <i>Journal of Materials Chemistry A</i> , 2013, 1, 823-829.	10.3	140
29	Enhanced microwave absorption in nickel/hexagonal-ferrite/polymer composites. <i>Applied Physics Letters</i> , 2006, 89, 132504.	3.3	139
30	Significant enhancement in energy density of polymer composites induced by dopamine-modified $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ nanofibers. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	139
31	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.	8.0	139
32	High energy density of polymer nanocomposites at a low electric field induced by modulation of their topological-structure. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8359-8365.	10.3	137
33	Modulation of topological structure induces ultrahigh energy density of graphene/ $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ nanofiber/polymer nanocomposites. <i>Nano Energy</i> , 2015, 18, 176-186.	16.0	136
34	Polymer Nanocomposites with Interpenetrating Gradient Structure Exhibiting Ultrahigh Discharge Efficiency and Energy Density. <i>Advanced Energy Materials</i> , 2019, 9, 1803411.	19.5	132
35	Large energy density at high-temperature and excellent thermal stability in polyimide nanocomposite contained with small loading of BaTiO_3 nanofibers. <i>Applied Surface Science</i> , 2018, 458, 743-750.	6.1	126
36	Ultrahigh discharge efficiency in multilayered polymer nanocomposites of high energy density. <i>Energy Storage Materials</i> , 2019, 18, 213-221.	18.0	125

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37	Bandgap Engineering and Enhanced Photocatalytic Activity of Sm and Mn Doped BiFeO ₃ Nanoparticles. Journal of the American Ceramic Society, 2017, 100, 31-40.	3.8	117
38	Highly enhanced energy density induced by hetero-interface in sandwich-structured polymer nanocomposites. Journal of Materials Chemistry A, 2013, 1, 12321.	10.3	116
39	Hierarchical interfaces induce high dielectric permittivity in nanocomposites containing TiO ₂ @BaTiO ₃ nanofibers. Nanoscale, 2014, 6, 6701-6709.	5.6	115
40	The Gadolinium (Gd ³⁺) and Tin (Sn ⁴⁺) Co-doped BiFeO ₃ Nanoparticles as New Solar Light Active Photocatalyst. Scientific Reports, 2017, 7, 42493.	3.3	115
41	High Li ion conductivity in strontium doped Li ₇ La ₃ Zr ₂ O ₁₂ garnet. Solid State Ionics, 2013, 243, 36-41.	2.7	105
42	Effects of Li source on microstructure and ionic conductivity of Al-contained Li _{6.75} La ₃ Zr _{1.75} Ta _{0.25} O ₁₂ ceramics. Journal of the European Ceramic Society, 2015, 35, 561-572.	5.7	101
43	Structural transitions and enhanced ferroelectricity in Ca and Mn co-doped BiFeO ₃ thin films. Journal of Applied Physics, 2011, 110, .	2.5	100
44	Polymer nanocomposites with high energy storage densities. MRS Bulletin, 2015, 40, 753-759.	3.5	99
45	Dielectric and energy storage performances of polyimide/BaTiO ₃ nanocomposites at elevated temperatures. Journal of Applied Physics, 2017, 121, .	2.5	98
46	Enhanced electrochemical performance of bulk type oxide ceramic lithium batteries enabled by interface modification. Journal of Materials Chemistry A, 2018, 6, 4649-4657.	10.3	98
47	Significantly increased energy density and discharge efficiency at high temperature in polyetherimide nanocomposites by a small amount of Al ₂ O ₃ nanoparticles. Journal of Materials Chemistry A, 2020, 8, 24536-24542.	10.3	98
48	Anisotropic thermal conductivity of the Aurivillius phase, bismuth titanate (Bi ₄ Ti ₃ O ₁₂): A natural nanostructured superlattice. Applied Physics Letters, 2008, 93, .	3.3	97
49	Chemical compatibility between garnet-like solid state electrolyte Li _{6.75} La ₃ Zr _{1.75} Ta _{0.25} O ₁₂ and major commercial lithium battery cathode materials. Journal of Materiomics, 2016, 2, 256-264.	5.7	96
50	Facial Synthesis and Photoreaction Mechanism of BiFeO ₃ /Bi ₂ Fe ₄ O ₉ Heterojunction Nanofibers. ACS Sustainable Chemistry and Engineering, 2017, 5, 4630-4636.	6.7	96
51	Polymer nanocomposite dielectrics for electrical energy storage. National Science Review, 2017, 4, 23-25.	9.5	93
52	Phase-field Model of Electrothermal Breakdown in Flexible High-temperature Nanocomposites under Extreme Conditions. Advanced Energy Materials, 2018, 8, 1800509.	19.5	90
53	Bandgap engineering and enhanced interface coupling of graphene-BiFeO ₃ nanocomposites as efficient photocatalysts under visible light. Journal of Materials Chemistry A, 2014, 2, 1967-1973.	10.3	87
54	Free-standing sulfide/polymer composite solid electrolyte membranes with high conductance for all-solid-state lithium batteries. Energy Storage Materials, 2020, 25, 145-153.	18.0	85

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55	Sol-gel derived Li-La-Zr-O thin films as solid electrolytes for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 13277.	10.3	84
56	High-energy-density dielectric films based on polyvinylidene fluoride and aromatic polythiourea for capacitors. Journal of Materials Chemistry A, 2014, 2, 15803-15807.	10.3	84
57	High Cycling Stability for Solid-State Li Metal Batteries via Regulating Solvation Effect in Poly(Vinylidene Fluoride)-Based Electrolytes. Batteries and Supercaps, 2020, 3, 876-883.	4.7	84
58	Tuning Phase Composition of Polymer Nanocomposites toward High Energy Density and High Discharge Efficiency by Nonequilibrium Processing. ACS Applied Materials & Interfaces, 2017, 9, 29717-29731.	8.0	81
59	Toroidal polar topology in strained ferroelectric polymer. Science, 2021, 371, 1050-1056.	12.6	74
60	High-performance sodium-ion hybrid capacitors based on an interlayer-expanded MoS ₂ /rGO composite: surpassing the performance of lithium-ion capacitors in a uniform system. NPG Asia Materials, 2018, 10, 775-787.	7.9	71
61	Dielectric properties of carbon fiber filled low-density polyethylene. Journal of Applied Physics, 2003, 93, 5543-5545.	2.5	67
62	Effect of calcining and Al doping on structure and conductivity of Li ₇ La ₃ Zr ₂ O ₁₂ . Solid State Ionics, 2014, 265, 7-12.	2.7	67
63	An in Situ-Formed Mosaic Li ₇ Sn ₃ /LiF Interface Layer for High-Rate and Long-Life Garnet-Based Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2019, 11, 34939-34947.	8.0	66
64	A surface-modified TiO ₂ nanorod array/P(VDF-HFP) dielectric capacitor with ultra high energy density and efficiency. Journal of Materials Chemistry C, 2017, 5, 12777-12784.	5.5	65
65	Modulating Surface Potential by Controlling the \hat{I}^2 Phase Content in Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 2018, 7, e1701466.	7.6	62
66	Thickness-dependent voltage-modulated magnetism in multiferroic heterostructures. Applied Physics Letters, 2012, 100, .	3.3	61
67	Preparation and electrochemical properties of Zr-site substituted Li ₇ La ₃ (Zr ₂ ^x M _x)O ₁₂ (M=Ta, Nb) solid electrolytes. Journal of Power Sources, 2014, 261, 206-211.	7.8	61
68	Non-intuitive concomitant enhancement of dielectric permittivity, breakdown strength and energy density in percolative polymer nanocomposites by trace Ag nanodots. Journal of Materials Chemistry A, 2019, 7, 15198-15206.	10.3	61
69	Interfacial Coupling Boosts Giant Electrocaloric Effects in Relaxor Polymer Nanocomposites: In Situ Characterization and Phase-Field Simulation. Advanced Materials, 2019, 31, e1801949.	21.0	60
70	Ferromagnetic and photocatalytic behaviors observed in Ca-doped BiFeO ₃ nanofibres. Journal of Applied Physics, 2013, 113, 146101.	2.5	59
71	Super Long-Cycling All-Solid-State Battery with Thin Li ₆ PS ₅ Cl-Based Electrolyte. Advanced Energy Materials, 2022, 12, .	19.5	58
72	Optimizing direct magnetoelectric coupling in Pb(Zr,Ti)O ₃ /Ni multiferroic film heterostructures. Applied Physics Letters, 2015, 106, .	3.3	56

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73	Lithium Argryrodite as Solid Electrolyte and Cathode Precursor for Solid-State Batteries with Long Cycle Life. <i>Advanced Energy Materials</i> , 2021, 11, 2101370.	19.5	56
74	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.	2.7	55
75	Improving ionic conductivity of Li _{0.35} La _{0.55} TiO ₃ ceramics by introducing Li ₇ La ₃ Zr ₂ O ₁₂ sol into the precursor powder. <i>Solid State Ionics</i> , 2013, 235, 8-13.	2.7	54
76	Excellent Stability in Polyetherimide/SiO ₂ Nanocomposites with Ultrahigh Energy Density and Discharge Efficiency at High Temperature. <i>Small</i> , 2022, 18, .	10.0	54
77	Thickness-dependent dielectric and energy storage properties of (Pb _{0.96} La _{0.04})(Zr _{0.98} Ti _{0.02})O ₃ antiferroelectric thin films. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	52
78	High-conductivity free-standing Li ₆ PS ₅ Cl/poly(vinylidene difluoride) composite solid electrolyte membranes for lithium-ion batteries. <i>Journal of Materiomics</i> , 2020, 6, 70-76.	5.7	51
79	NiFe Layered Double Hydroxides Grown on a Corrosion-Resistant Cathode for Oxygen Evolution Electrocatalysis. <i>Advanced Energy Materials</i> , 2022, 12, 2102372.	19.5	51
80	Garnet-type oxide electrolyte with novel porous-dense bilayer configuration for rechargeable all-solid-state lithium batteries. <i>Ionics</i> , 2017, 23, 2521-2527.	2.4	50
81	High Capacity, Superior Cyclic Performances in All-Solid-State Lithium-Ion Batteries Based on Li ₂ S-22P ₂ S ₅ Glass-Ceramic Electrolytes Prepared via Simple Heat Treatment. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28542-28548.	8.0	49
82	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.	8.0	49
83	Enhancement of thermoelectric properties by atomic-scale percolation in digenite Cu _x S. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9486-9489.	10.3	48
84	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.	10.3	48
85	Enhancing ionic conductivity of Li _{0.35} La _{0.55} TiO ₃ ceramics by introducing Li ₇ La ₃ Zr ₂ O ₁₂ . <i>Electrochimica Acta</i> , 2012, 80, 133-139.	5.2	45
86	Machine learning in energy storage materials. , 2022, 1, 175-195.		45
87	Dielectric behavior of graphene/BaTiO ₃ /polyvinylidene fluoride nanocomposite under high electric field. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	44
88	Dielectric and Ferroelectric Properties of BaTiO ₃ Nanofibers Prepared via Electrospinning. <i>Journal of Materials Science and Technology</i> , 2014, 30, 743-747.	10.7	42
89	Ultrathin Li ₇ La ₃ Zr ₂ O ₁₂ @PAN composite polymer electrolyte with high conductivity for all-solid-state lithium-ion battery. <i>Solid State Ionics</i> , 2020, 347, 115227.	2.7	42
90	Enhanced breakdown strength and suppressed leakage current of polyvinylidene fluoride nanocomposites by two-dimensional ZrO ₂ nanosheets. <i>Materials Express</i> , 2016, 6, 277-282.	0.5	41

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91	High-performance Li ₆ PS ₅ Cl-based all-solid-state lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 18612-18618.	10.3	40
92	Response to Comment on "Self-Suppression of Lithium Dendrite in All-Solid-State Lithium Metal Batteries with Poly(vinylidene difluoride)-Based Solid Electrolytes". Advanced Materials, 2020, 32, e2000026.	21.0	40
93	Dual-ion hybrid supercapacitor: Integration of Li-ion hybrid supercapacitor and dual-ion battery realized by porous graphitic carbon. Journal of Energy Chemistry, 2020, 42, 180-184.	12.9	39
94	Designing polymer nanocomposites with high energy density using machine learning. Npj Computational Materials, 2021, 7, .	8.7	39
95	Synergistic effect of processing and composition x on conductivity of xLi ₂ S-(100-x)P ₂ S ₅ electrolytes. Solid State Ionics, 2017, 305, 1-6.	2.7	37
96	Enhanced lithium-ion conductivity in a LiZr ₂ (PO ₄) ₃ solid electrolyte by Al doping. Ceramics International, 2017, 43, S598-S602.	4.8	37
97	High Capacity and Superior Cyclic Performances of All-Solid-State Lithium Batteries Enabled by a Glass-Ceramics Solo. ACS Applied Materials & Interfaces, 2018, 10, 10029-10035.	8.0	37
98	Enhancements of dielectric and energy storage performances in lead-free films with sandwich architecture. Journal of the American Ceramic Society, 2019, 102, 936-943.	3.8	37
99	Flexible Robust and High-Density FeRAM from Array of Organic Ferroelectric Nano-Lamellae by Self-Assembly. Advanced Science, 2019, 6, 1801931.	11.2	37
100	Tunable magnetic and electrical behaviors in perovskite oxides by oxygen octahedral tilting. Science China Materials, 2015, 58, 302-312.	6.3	36
101	Refreshing Piezoelectrics: Distinctive Role of Manganese in Lead-Free Perovskites. ACS Applied Materials & Interfaces, 2018, 10, 37298-37306.	8.0	36
102	Thickness-dependent converse magnetoelectric coupling in bi-layered Ni/PZT thin films. Journal of Applied Physics, 2012, 111, .	2.5	34
103	High energy density and efficiency achieved in nanocomposite film capacitors via structure modulation. Applied Physics Letters, 2018, 112, .	3.3	34
104	An All-Scale Hierarchical Architecture Induces Colossal Room-Temperature Electrocaloric Effect at Ultralow Electric Field in Polymer Nanocomposites. Advanced Materials, 2020, 32, e1907927.	21.0	34
105	X-ray absorption near-edge spectroscopy study on Ge-doped Li ₇ La ₃ Zr ₂ O ₁₂ : enhanced ionic conductivity and defect chemistry. Electrochimica Acta, 2014, 115, 581-586.	5.2	33
106	Large d ₃₃ and enhanced ferroelectric/dielectric properties of poly(vinylidene fluoride)/barium titanate nanofibers. RSC Advances, 2015, 5, 51302-51307.	3.6	33
107	Remote Tuning of Built-in Magnetoelectric Microenvironment to Promote Bone Regeneration by Modulating Cellular Exposure to Arginylglycylaspartic Acid Peptide. Advanced Functional Materials, 2021, 31, 2006226.	14.9	33
108	High-temperature electrical energy storage performances of dipolar glass polymer nanocomposites filled with trace ultrafine nanoparticles. Chemical Engineering Journal, 2021, 420, 127614.	12.7	33

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109	High capacity and cyclic performance in a three-dimensional composite electrode filled with inorganic solid electrolyte. <i>Journal of Power Sources</i> , 2014, 249, 306-310.	7.8	31
110	Low-dimensional nanostructured photocatalysts. <i>Journal of Advanced Ceramics</i> , 2015, 4, 159-182.	17.4	31
111	Space charge effects on the dielectric response of polymer nanocomposites. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	31
112	Switchable voltage control of the magnetic coercive field via magnetoelectric effect. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	30
113	Enhanced Photocatalytic Performance under Visible and Near-Infrared Irradiation of Cu _{1.8} Se/Cu ₃ Se ₂ Composite via a Phase Junction. <i>Nanomaterials</i> , 2017, 7, 19.	4.1	29
114	Anisotropic electrical properties of semiconductive Bi ₂ S ₃ nanorod filled ferroelectric polyvinylidene fluoride. <i>Chemical Physics Letters</i> , 2004, 396, 420-423.	2.6	27
115	High-frequency magnetic and dielectric properties of a three-phase composite of nickel, Co ₂ Z ferrite, and polymer. <i>Journal of Applied Physics</i> , 2006, 99, 123909.	2.5	27
116	Photocatalytic behaviors observed in Ba and Mn doped BiFeO ₃ nanofibers. <i>Journal of Electroceramics</i> , 2013, 31, 271-274.	2.0	27
117	Colossal thermoelectric enhancement in Cu _{2+x} Zn _{1-x} Sn ₄ solid solution by local disordering of crystal lattice and multi-scale defect engineering. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10909-10916.	10.3	27
118	Photocatalytic and magnetic behaviors of BiFeO ₃ thin films deposited on different substrates. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	25
119	High capacity and rate performance of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ composite cathode for bulk-type all-solid-state lithium battery. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13332.	10.3	25
120	High electrocaloric cooling power of relaxor ferroelectric BaZrTi ¹⁶ O ₃ ceramics within broad temperature range. <i>Science Bulletin</i> , 2018, 63, 356-361.	9.0	25
121	Mechanical properties of polymer-infiltrated-ceramic (sodium aluminum silicate) composites for dental restoration. <i>Journal of Dentistry</i> , 2017, 62, 91-97.	4.1	24
122	Enhanced electric resistivity and dielectric energy storage by vacancy defect complex. <i>Energy Storage Materials</i> , 2021, 42, 836-844.	18.0	24
123	Effects of Reducing Atmosphere on the Luminescence of Eu ³⁺ -Doped Yttria-Stabilized Zirconia Sensor Layers in Thermal Barrier Coatings. <i>Journal of the American Ceramic Society</i> , 2009, 92, 125-129.	3.8	23
124	Mesoporous template-free gyroid-like nanostructures based on La and Mn co-doped bismuth ferrites with improved photocatalytic activity. <i>RSC Advances</i> , 2016, 6, 114183-114189.	3.6	23
125	A simple method for direct observation of the converse magnetoelectric effect in magnetic/ferroelectric composite thin films. <i>Journal of Applied Physics</i> , 2011, 110, 096106.	2.5	20
126	Influence of Al ₂ O ₃ additive on the dielectric behavior and energy density of Ba _{0.5} Sr _{0.5} TiO ₃ ceramics. <i>Journal of Electroceramics</i> , 2012, 29, 95-98.	2.0	19

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127	Robust CaZrO ₃ -modified (K, Na)NbO ₃ -based lead-free piezoceramics: High fatigue resistance insensitive to temperature and electric field. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	19
128	Visible Light Photocatalytic Activity of Bismuth Ferrites Tuned by Bi/Fe Ratio. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1133-1136.	3.8	19
129	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	19
130	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.	4.7	19
131	An alternating multilayer architecture boosts ultrahigh energy density and high discharge efficiency in polymer composites. <i>RSC Advances</i> , 2020, 10, 5886-5893.	3.6	19
132	Enhanced electrocaloric strength in P(VDF-TrFE-CFE) by decreasing the crystalline size. <i>Journal of Materiomics</i> , 2019, 5, 357-362.	5.7	18
133	Topologically distributed one-dimensional TiO ₂ nanofillers maximize the dielectric energy density in a P(VDF-HFP) nanocomposite. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18244-18253.	10.3	18
134	High-throughput data-driven interface design of high-energy-density polymer nanocomposites. <i>Journal of Materiomics</i> , 2020, 6, 573-581.	5.7	18
135	Enhanced magnetoelectric coupling in Pb(Zr _{0.52} Ti _{0.48})O ₃ film-on-CoFe ₂ O ₄ bulk ceramic composite with LaNiO ₃ bottom electrode. <i>Journal of Materials Science</i> , 2013, 48, 1021-1026.	3.7	17
136	A Ferroconcrete-Like All-Organic Nanocomposite Exhibiting Improved Mechanical Property, High Breakdown Strength, and High Energy Efficiency. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900433.	3.6	17
137	Magnetic and Photocatalytic Behaviors of Ba-Doped BiFeO ₃ Nanofibers. <i>International Journal of Applied Ceramic Technology</i> , 2014, 11, 676-680.	2.1	15
138	An Optical/Ferroelectric Multiplexing Multidimensional Nonvolatile Memory from Ferroelectric Polymer. <i>Advanced Materials</i> , 2022, 34, e2202181.	21.0	15
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