

Qing Wang

List of Publications by Year in descending order

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248
papers

22,360
citations

7096

78
h-index

9588

142
g-index

249
all docs

249
docs citations

249
times ranked

11895
citing authors

#	ARTICLE	IF	CITATIONS
1	A Dielectric Polymer with High Electric Energy Density and Fast Discharge Speed. <i>Science</i> , 2006, 313, 334-336.	12.6	2,068
2	Flexible high-temperature dielectric materials from polymer nanocomposites. <i>Nature</i> , 2015, 523, 576-579.	27.8	1,476
3	Solution-processed ferroelectric terpolymer nanocomposites with high breakdown strength and energy density utilizing boron nitride nanosheets. <i>Energy and Environmental Science</i> , 2015, 8, 922-931.	30.8	541
4	High-Temperature Dielectric Materials for Electrical Energy Storage. <i>Annual Review of Materials Research</i> , 2018, 48, 219-243.	9.3	540
5	Novel Ferroelectric Polymers for High Energy Density and Low Loss Dielectrics. <i>Macromolecules</i> , 2012, 45, 2937-2954.	4.8	535
6	Nanocomposites of Ferroelectric Polymers with TiO ₂ Nanoparticles Exhibiting Significantly Enhanced Electrical Energy Density. <i>Advanced Materials</i> , 2009, 21, 217-221.	21.0	471
7	Polymer nanocomposites for electrical energy storage. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 1421-1429.	2.1	451
8	High Energy and Power Density Capacitors from Solution-Processed Ternary Ferroelectric Polymer Nanocomposites. <i>Advanced Materials</i> , 2014, 26, 6244-6249.	21.0	448
9	Nanostructure-based WO ₃ photoanodes for photoelectrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7894.	2.8	409
10	Ferroelectric polymer networks with high energy density and improved discharged efficiency for dielectric energy storage. <i>Nature Communications</i> , 2013, 4, 2845.	12.8	382
11	Electrical Energy Storage in Ferroelectric Polymer Nanocomposites Containing Surface-Functionalized BaTiO ₃ Nanoparticles. <i>Chemistry of Materials</i> , 2008, 20, 6304-6306.	6.7	339
12	High-Energy-Density Dielectric Polymer Nanocomposites with Trilayered Architecture. <i>Advanced Functional Materials</i> , 2017, 27, 1606292.	14.9	338
13	Sandwich-structured polymer nanocomposites with high energy density and great charge-discharge efficiency at elevated temperatures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9995-10000.	7.1	317
14	High-Performance Polymers Sandwiched with Chemical Vapor Deposited Hexagonal Boron Nitrides as Scalable High-Temperature Dielectric Materials. <i>Advanced Materials</i> , 2017, 29, 1701864.	21.0	270
15	Dielectric polymers for high-temperature capacitive energy storage. <i>Chemical Society Reviews</i> , 2021, 50, 6369-6400.	38.1	262
16	A Scalable, High-Throughput, and Environmentally Benign Approach to Polymer Dielectrics Exhibiting Significantly Improved Capacitive Performance at High Temperatures. <i>Advanced Materials</i> , 2018, 30, e1805672.	21.0	260
17	Tuning Nanofillers in In Situ Prepared Polyimide Nanocomposites for High-Temperature Capacitive Energy Storage. <i>Advanced Energy Materials</i> , 2020, 10, 1903881.	19.5	259
18	Highly Stretchable Polymer Composite with Strain-Enhanced Electromagnetic Interference Shielding Effectiveness. <i>Advanced Materials</i> , 2020, 32, e1907499.	21.0	242

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19	Ultrahigh energy density and greatly enhanced discharged efficiency of sandwich-structured polymer nanocomposites with optimized spatial organization. <i>Nano Energy</i> , 2018, 44, 364-370.	16.0	241
20	Scalable Polymer Nanocomposites with Record High-Temperature Capacitive Performance Enabled by Rationally Designed Nanostructured Inorganic Fillers. <i>Advanced Materials</i> , 2019, 31, e1900875.	21.0	236
21	Compositional tailoring effect on electric field distribution for significantly enhanced breakdown strength and restrained conductive loss in sandwich-structured ceramic/polymer nanocomposites. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4710-4718.	10.3	217
22	Ferroelectric polymers exhibiting behaviour reminiscent of a morphotropic phase boundary. <i>Nature</i> , 2018, 562, 96-100.	27.8	200
23	Ultrahigh electric displacement and energy density in gradient layer-structured BaTiO ₃ /PVDF nanocomposites with an interfacial barrier effect. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10849-10855.	10.3	197
24	Crystal Orientation Effect on Electric Energy Storage in Poly(vinylidene fluoride)/co(i)/	4.8	196
25	Ferroelectric Polymers and Their Energy-Related Applications. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1228-1244.	2.2	193
26	Ferroelectric Polymer Nanocomposites for Room-Temperature Electrocaloric Refrigeration. <i>Advanced Materials</i> , 2015, 27, 1450-1454.	21.0	192
27	Flexible three-dimensional interconnected piezoelectric ceramic foam based composites for highly efficient concurrent mechanical and thermal energy harvesting. <i>Energy and Environmental Science</i> , 2018, 11, 2046-2056.	30.8	188
28	Crosslinked fluoropolymers exhibiting superior high-temperature energy density and charge-discharge efficiency. <i>Energy and Environmental Science</i> , 2020, 13, 1279-1286.	30.8	188
29	A Modular Approach to Ferroelectric Polymers with Chemically Tunable Curie Temperatures and Dielectric Constants. <i>Journal of the American Chemical Society</i> , 2006, 128, 8120-8121.	13.7	183
30	Integrated Triboelectric Nanogenerators in the Era of the Internet of Things. <i>Advanced Science</i> , 2019, 6, 1802230.	11.2	174
31	Self-healing of electrical damage in polymers using superparamagnetic nanoparticles. <i>Nature Nanotechnology</i> , 2019, 14, 151-155.	31.5	169
32	High-Energy Storage Performance of (Pb _{0.87} Ba _{0.1} La _{0.02})(Zr _{0.68} Sn _{0.24} Ti _{0.08})O ₃ Antiferroelectric Ceramics Fabricated by the Hot-Press Sintering Method. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1175-1181.	3.8	168
33	Colossal Room-Temperature Electrocaloric Effect in Ferroelectric Polymer Nanocomposites Using Nanostructured Barium Strontium Titanates. <i>ACS Nano</i> , 2015, 9, 7164-7174.	14.6	164
34	Multilayered ferroelectric polymer films incorporating low-dielectric-constant components for concurrent enhancement of energy density and charge-discharge efficiency. <i>Nano Energy</i> , 2018, 54, 288-296.	16.0	161
35	Poly(methyl methacrylate)/boron nitride nanocomposites with enhanced energy density as high temperature dielectrics. <i>Composites Science and Technology</i> , 2017, 142, 139-144.	7.8	153
36	Multilayered hierarchical polymer composites for high energy density capacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2965-2980.	10.3	153

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37	A Hybrid Material Approach Toward Solution-Processable Dielectrics Exhibiting Enhanced Breakdown Strength and High Energy Density. <i>Advanced Functional Materials</i> , 2015, 25, 3505-3513.	14.9	152
38	3D boron nitride foam filled epoxy composites with significantly enhanced thermal conductivity by a facial and scalable approach. <i>Chemical Engineering Journal</i> , 2020, 397, 125447.	12.7	152
39	Nanostructured Ferroelectric-Polymer Composites for Capacitive Energy Storage. <i>Small Methods</i> , 2018, 2, 1700399.	8.6	147
40	Relaxor Ferroelectric-Based Electrocaloric Polymer Nanocomposites with a Broad Operating Temperature Range and High Cooling Energy. <i>Advanced Materials</i> , 2015, 27, 2236-2241.	21.0	143
41	Dielectric materials for high-temperature capacitors. <i>IET Nanodielectrics</i> , 2018, 1, 32-40.	4.1	139
42	Gradient-layered polymer nanocomposites with significantly improved insulation performance for dielectric energy storage. <i>Energy Storage Materials</i> , 2020, 24, 626-634.	18.0	137
43	High-Temperature Poly(phthalazinone ether ketone) Thin Films for Dielectric Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1286-1289.	8.0	136
44	Confined Ferroelectric Properties in Poly(Vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (Fluoride-Chlorotrifluoro) Energy Storage Applications. <i>Advanced Functional Materials</i> , 2011, 21, 3176-3188.	14.9	135
45	Multiscale structural engineering of dielectric ceramics for energy storage applications: from bulk to thin films. <i>Nanoscale</i> , 2020, 12, 17165-17184.	5.6	131
46	Effects of Polymorphism and Crystallite Size on Dipole Reorientation in Poly(vinylidene fluoride) and Its Random Copolymers. <i>Macromolecules</i> , 2010, 43, 6739-6748.	4.8	130
47	High-Temperature High-Energy-Density Dielectric Polymer Nanocomposites Utilizing Inorganic Core-Shell Nanostructured Nanofillers. <i>Advanced Energy Materials</i> , 2021, 11, 2101297.	19.5	130
48	New Route Toward High-Energy-Density Nanocomposites Based on Chain-End Functionalized Ferroelectric Polymers. <i>Chemistry of Materials</i> , 2010, 22, 5350-5357.	6.7	129
49	Y doping and grain size co-effects on the electrical energy storage performance of (Pb _{0.87} Ba _{0.1} La _{0.02})(Zr _{0.65} Sn _{0.3} Ti _{0.05})O ₃ anti-ferroelectric ceramics. <i>Ceramics International</i> , 2014, 40, 5455-5460.	4.8	129
50	Poly(arylene ether)-Based Single-Ion Conductors for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2016, 28, 188-196.	6.7	129
51	Multifunctional hydrogel enables extremely simplified electrochromic devices for smart windows and ionic writing boards. <i>Materials Horizons</i> , 2018, 5, 1000-1007.	12.2	129
52	Confinement-Induced High-Field Antiferroelectric-like Behavior in a Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (fluoride) Graft Copolymer. <i>Macromolecules</i> , 2011, 44, 2190-2199.	4.8	125
53	Largely enhanced dielectric properties of polymer composites with HfO ₂ nanoparticles for high-temperature film capacitors. <i>Composites Science and Technology</i> , 2021, 201, 108528.	7.8	121
54	A Facile In Situ Surface-Functionalization Approach to Scalable Laminated High-Temperature Polymer Dielectrics with Ultrahigh Capacitive Performance. <i>Advanced Functional Materials</i> , 2021, 31, 2102644.	14.9	117

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55	Ternary polymer nanocomposites with concurrently enhanced dielectric constant and breakdown strength for high-temperature electrostatic capacitors. <i>Informa Mater</i> , 2020, 2, 389-400.	17.3	114
56	Fatigue-Free Aurivillius Phase Ferroelectric Thin Films with Ultrahigh Energy Storage Performance. <i>Advanced Energy Materials</i> , 2020, 10, 2001536.	19.5	114
57	Review of ionic liquids containing, polymer/inorganic hybrid electrolytes for lithium metal batteries. <i>Materials and Design</i> , 2020, 190, 108563.	7.0	111
58	Flexible energy harvesting polymer composites based on biofibril-templated 3-dimensional interconnected piezoceramics. <i>Nano Energy</i> , 2018, 50, 35-42.	16.0	107
59	Bioinspired elastic piezoelectric composites for high-performance mechanical energy harvesting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14546-14552.	10.3	104
60	Significant Improvements in Dielectric Constant and Energy Density of Ferroelectric Polymer Nanocomposites Enabled by Ultralow Contents of Nanofillers. <i>Advanced Materials</i> , 2021, 33, e2102392.	21.0	102
61	Toward Wearable Cooling Devices: Highly Flexible Electrocaloric $Ba_{0.67}Sr_{0.33}TiO_3$ Nanowire Arrays. <i>Advanced Materials</i> , 2016, 28, 4811-4816.	21.0	101
62	Microstructures and Dielectric Properties of the Ferroelectric Fluoropolymers Synthesized via Reductive Dechlorination of Poly(vinylidene fluoride-co-chlorotrifluoroethylene)s. <i>Macromolecules</i> , 2006, 39, 6962-6968.	4.8	100
63	Dielectric characteristics of poly(ether ketone ketone) for high temperature capacitive energy storage. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	100
64	Ultrahigh Energy Storage Performance of Layered Polymer Nanocomposites over a Broad Temperature Range. <i>Advanced Materials</i> , 2021, 33, e2103338.	21.0	96
65	Understanding of Relaxor Ferroelectric Behavior of Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (fluoride) 2731-2739.	4.8	93
66	Chirality-induced relaxor properties in ferroelectric polymers. <i>Nature Materials</i> , 2020, 19, 1169-1174.	27.5	93
67	Improved Energy Storage Properties Accompanied by Enhanced Interface Polarization in Annealed Microwave-Sintered BST. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3212-3222.	3.8	90
68	Advanced polymer dielectrics for high temperature capacitive energy storage. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	90
69	Polymers Containing Highly Polarizable Conjugated Side Chains as High-Performance All-Organic Nanodielectric Materials. <i>Advanced Functional Materials</i> , 2013, 23, 5638-5646.	14.9	88
70	Bioinspired Hierarchically Structured All-Inorganic Nanocomposites with Significantly Improved Capacitive Performance. <i>Advanced Functional Materials</i> , 2020, 30, 2000191.	14.9	88
71	Oxygen vacancies-rich $Ce_{0.9}Gd_{0.1}O_{2-\delta}$ decorated $Pr_{0.5}Ba_{0.5}CoO_{3-\delta}$ bifunctional catalyst for efficient and long-lasting rechargeable Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020, 266, 118656.	20.2	87
72	Ultrahigh discharge efficiency and energy density achieved at low electric fields in sandwich-structured polymer films containing dielectric elastomers. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3729-3736.	10.3	85

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73	Lightweight Porous Polystyrene with High Thermal Conductivity by Constructing 3D Interconnected Network of Boron Nitride Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46767-46778.	8.0	85
74	Soft liquid-metal/elastomer foam with compression-adjustable thermal conductivity and electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , 2021, 410, 128288.	12.7	85
75	Structural Insight in the Interfacial Effect in Ferroelectric Polymer Nanocomposites. <i>Advanced Materials</i> , 2020, 32, e2005431.	21.0	84
76	Structural Dependence of Phase Transition and Dielectric Relaxation in Ferroelectric Poly(vinylidene fluoride) Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10411-10416.	2.6	83
77	Synthesis and Characterization of Self-Assembled Sulfonated Poly(styrene- <i>b</i> -vinylidene fluoride) Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2007, 19, 5937-5945.	6.7	81
78	Enhanced energy storage performance of ferroelectric polymer nanocomposites at relatively low electric fields induced by surface modified BaTiO ₃ nanofibers. <i>Composites Science and Technology</i> , 2018, 164, 214-221.	7.8	80
79	Enabling High Energy Density High Efficiency Ferroelectric Polymer Nanocomposites with Rationally Designed Nanofillers. <i>Advanced Functional Materials</i> , 2021, 31, .	14.9	80
80	Electrical Storage in Poly(vinylidene fluoride) based Ferroelectric Polymers: Correlating Polymer Structure to Electrical Breakdown Strength. <i>Chemistry of Materials</i> , 2008, 20, 2078-2080.	6.7	79
81	Suppression of energy dissipation and enhancement of breakdown strength in ferroelectric polymer/graphene percolative composites. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7034.	5.5	78
82	Effect of molecular weight on the dielectric breakdown strength of ferroelectric poly(vinylidene fluoride) nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3307-3313.	3.3	78
83	Multiferroic Polymer Composites with Greatly Enhanced Magnetoelectric Effect under a Low Magnetic Bias. <i>Advanced Materials</i> , 2011, 23, 3853-3858.	21.0	72
84	Synergetic enhancement of mechanical and electrical strength in epoxy/silica nanocomposites via chemically-bonded interface. <i>Composites Science and Technology</i> , 2018, 167, 539-546.	7.8	70
85	Conjugated Polymers Containing Mixed-Ligand Ruthenium(II) Complexes. Synthesis, Characterization, and Investigation of Photoconductive Properties. <i>Journal of the American Chemical Society</i> , 2000, 122, 11806-11811.	13.7	69
86	Self-Healable Polymer Nanocomposites Capable of Simultaneously Recovering Multiple Functionalities. <i>Advanced Functional Materials</i> , 2016, 26, 3524-3531.	14.9	69
87	Multiferroic polymer composites with greatly enhanced magnetoelectric effect under a low magnetic bias. <i>Advanced Materials</i> , 2011, 23, 3853-8.	21.0	69
88	Ferroelectric Polymers Exhibiting Negative Longitudinal Piezoelectric Coefficient: Progress and Prospects. <i>Advanced Science</i> , 2020, 7, 1902468.	11.2	66
89	Ternary PVDF-based terpolymer nanocomposites with enhanced energy density and high power density. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 597-603.	7.6	64
90	Autonomous Self-Healing of Electrical Degradation in Dielectric Polymers Using In Situ Electroluminescence. <i>Matter</i> , 2020, 2, 451-463.	10.0	63

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91	Progress in lead-free piezoelectric nanofiller materials and related composite nanogenerator devices. <i>Nanoscale Advances</i> , 2020, 2, 3131-3149.	4.6	62
92	Significantly enhancing the discharge efficiency of sandwich-structured polymer dielectrics at elevated temperature by building carrier blocking interface. <i>Nano Energy</i> , 2022, 97, 107215.	16.0	62
93	Multiferroic Polymer Laminate Composites Exhibiting High Magnetoelectric Response Induced by Hydrogen Bonding Interactions. <i>Advanced Functional Materials</i> , 2014, 24, 1067-1073.	14.9	61
94	Organic-inorganic hybrid electrolytes from ionic liquid-functionalized octasilsesquioxane for lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18012-18019.	10.3	60
95	Recent progress in polymer dielectrics containing boron nitride nanosheets for high energy density capacitors. <i>High Voltage</i> , 2020, 5, 365-376.	4.7	60
96	TiO ₂ -decorated graphenes as efficient photoswitches with high oxygen sensitivity. <i>Chemical Science</i> , 2011, 2, 1860.	7.4	59
97	A microcube-based hybrid piezocomposite as a flexible energy generator. <i>RSC Advances</i> , 2017, 7, 32502-32507.	3.6	59
98	Nanoconfinement-induced Giant Electrocaloric Effect in Ferroelectric Polymer Nanowire Array Integrated with Aluminum Oxide Membrane to Exhibit Record Cooling Power Density. <i>Advanced Materials</i> , 2019, 31, e1806642.	21.0	56
99	Acid-Functionalized Polysilsesquioxane-Nafion Composite Membranes with High Proton Conductivity and Enhanced Selectivity. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2573-2579.	8.0	55
100	Sandwich structured poly(vinylidene fluoride)/polyacrylate elastomers with significantly enhanced electric displacement and energy density. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24367-24377.	10.3	54
101	Significantly enhancing the dielectric constant and breakdown strength of linear dielectric polymers by utilizing ultralow loadings of nanofillers. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23028-23036.	10.3	54
102	Development of fully functionalized photorefractive polymers. <i>Macromolecular Rapid Communications</i> , 2000, 21, 723-745.	3.9	51
103	Achieving high electric energy storage in a polymer nanocomposite at low filling ratios using a highly polarizable phthalocyanine interphase. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 1669-1680.	2.1	51
104	Large enhancement of the electrocaloric effect in PLZT ceramics prepared by hot-pressing. <i>APL Materials</i> , 2016, 4, .	5.1	51
105	Flexible Ionic Diodes for Low-Frequency Mechanical Energy Harvesting. <i>Advanced Energy Materials</i> , 2017, 7, 1601983.	19.5	51
106	Partially reduced Sn/SnO ₂ porous hollow fiber: A highly selective, efficient and robust electrocatalyst towards carbon dioxide reduction. <i>Electrochimica Acta</i> , 2018, 285, 70-77.	5.2	51
107	Highly Conductive Aromatic Ionomers with Perfluorosulfonic Acid Side Chains for Elevated Temperature Fuel Cells. <i>Macromolecules</i> , 2011, 44, 4605-4609.	4.8	50
108	Synthesis and Unusual Physical Behavior of a Photorefractive Polymer Containing Tris(bipyridyl)ruthenium(II) Complexes as a Photosensitizer and Exhibiting a Low Glass-Transition Temperature. <i>Journal of the American Chemical Society</i> , 1998, 120, 12860-12868.	13.7	49

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109	Harvesting Energy from Human Activity: Ferroelectric Energy Harvesters for Portable, Implantable, and Biomedical Electronics. <i>Energy Technology</i> , 2018, 6, 791-812.	3.8	49
110	Hydrogel Ionic Diodes toward Harvesting Ultralow-Frequency Mechanical Energy. <i>Advanced Materials</i> , 2021, 33, e2103056.	21.0	48
111	High Energy Density and Breakdown Strength from $\hat{1}^2$ and $\hat{1}^3$ Phases in Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 6 (fluoride-trifluoroethylene) Copolymer. <i>Advanced Materials</i> , 2018, 30, 18981-18988.	8.0	47
112	Self-Powered Rewritable Electrochromic Display based on WO_3-x Film with Mechanochemically Synthesized MoO_3 Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20326-20335.	8.0	46
113	Enhancing high-temperature capacitor performance of polymer nanocomposites by adjusting the energy level structure in the micro-/meso-scopic interface region. <i>Nano Energy</i> , 2022, 99, 107314.	16.0	45
114	Enhanced Permittivity and Energy Density in Neat Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (fluoride-trifluoroethylene) Copolymer Morphology. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9584-9589.	8.0	43
115	Superior electrostrictive strain achieved under low electric fields in relaxor ferroelectric polymers. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5201-5208.	10.3	43
116	Significantly improved breakdown strength and energy density of tri-layered polymer nanocomposites with optimized graphene oxide. <i>Composites Science and Technology</i> , 2020, 186, 107912.	7.8	43
117	Ultrahigh charge-discharge efficiency and enhanced energy density of the sandwiched polymer nanocomposites with poly(methyl methacrylate) layer. <i>Composites Science and Technology</i> , 2021, 202, 108591.	7.8	43
118	Ferroelectric Polymer Nanocomposites with Complementary Nanostructured Fillers for Electrocaloric Cooling with High Power Density and Great Efficiency. <i>ACS Applied Energy Materials</i> , 2018, 1, 1344-1354.	5.1	42
119	Injectable self-crosslinking HA-SH/Col I blend hydrogels for in vitro construction of engineered cartilage. <i>Carbohydrate Polymers</i> , 2018, 190, 57-66.	10.2	42
120	Enhanced pyroelectric properties of porous $Ba_{0.67}Sr_{0.33}TiO_3$ ceramics fabricated with carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2015, 636, 93-96.	5.5	41
121	High breakdown strength and low loss binary polymer blends of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (fluoride-trifluoroethylene) Copolymer. <i>Advanced Technologies</i> , 2018, 29, 1271-1277.	3.2	39
122	$SnSe_2$ Nanorods on Carbon Cloth as a Highly Selective, Active, and Flexible Electrocatalyst for Electrochemical Reduction of CO_2 into Formate. <i>ACS Applied Energy Materials</i> , 2019, 2, 7655-7662.	5.1	39
123	Largely enhanced energy storage performance of sandwich-structured polymer nanocomposites with synergistic inorganic nanowires. <i>Ceramics International</i> , 2019, 45, 8216-8221.	4.8	39
124	Controlling Chain Conformations of High- k Fluoropolymer Dielectrics to Enhance Charge Mobilities in Rubrene Single-Crystal Field-Effect Transistors. <i>Advanced Materials</i> , 2016, 28, 10095-10102.	21.0	38
125	Size effects of electrocaloric cooling in ferroelectric nanowires. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1566-1575.	3.8	38
126	Synthesis and Structure/Property Correlation of Fully Functionalized Photorefractive Polymers. <i>Macromolecules</i> , 2002, 35, 4636-4645.	4.8	37

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127	Doping dependence of electrical and thermal conductivity of nanoscale polyaniline thin films. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 205302.	2.8	37
128	Synthesis and characterization of compartmented Ca-alginate/silica self-healing fibers containing bituminous rejuvenator. <i>Construction and Building Materials</i> , 2018, 190, 623-631.	7.2	37
129	Microfluidic synthesis of polymeric fibers containing rejuvenating agent for asphalt self-healing. <i>Construction and Building Materials</i> , 2019, 219, 176-183.	7.2	37
130	High efficiency and selectivity from synergy: Bi nanoparticles embedded in nitrogen doped porous carbon for electrochemical reduction of CO ₂ to formate. <i>Electrochimica Acta</i> , 2020, 334, 135563.	5.2	37
131	Self-healing capability of asphalt mixture containing polymeric composite fibers under acid and saline-alkali water solutions. <i>Journal of Cleaner Production</i> , 2020, 268, 122387.	9.3	37
132	Synthesis of Telechelic Fluoropolymers with Well-Defined Functional End Groups for Cross-Linked Networks and Nanocomposites. <i>Macromolecules</i> , 2007, 40, 4121-4123.	4.8	36
133	Self-Assembly and Optical Property of Triblock Copolymers Made of Polystyrene and Oligo(<i>p</i> -phenyleneethynylene) in Different Mixtures of Toluene and Hexane. <i>Macromolecules</i> , 2007, 40, 6692-6698.	4.8	35
134	Effect of crystal structure on polarization reversal and energy storage of ferroelectric poly(vinylidene fluoride-co-chlorotrifluoroethylene) thin films. <i>Polymer</i> , 2012, 53, 1277-1281.	3.8	35
135	Multilayer Assembly and Patterning of Poly(<i>p</i> -phenylenevinylene)s via Covalent Coupling Reactions. <i>Langmuir</i> , 2004, 20, 9600-9606.	3.5	34
136	Synthesis and Solution Aggregation of Polystyrene~Oligo(<i>p</i> -phenyleneethynylene)~Polystyrene Triblock Copolymer. <i>Macromolecules</i> , 2004, 37, 1172-1174.	4.8	34
137	Towards multicaloric effect with ferroelectrics. <i>Physical Review B</i> , 2016, 94, .	3.2	33
138	Molecular Rectification in Conjugated Block Copolymer Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6978-6988.	3.1	32
139	A multifunctional smart window: detecting ultraviolet radiation and regulating the spectrum automatically. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10446-10453.	5.5	32
140	Bilayer-Structured Polymer Nanocomposites Exhibiting High Breakdown Strength and Energy Density via Interfacial Barrier Design. <i>ACS Applied Energy Materials</i> , 2020, 3, 8055-8063.	5.1	32
141	Improper molecular ferroelectrics with simultaneous ultrahigh pyroelectricity and figures of merit. <i>Science Advances</i> , 2021, 7, .	10.3	32
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