

# Qing Wang

## List of Publications by Year in descending order

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248

papers

22,360

citations

7096

78

h-index

9589

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 $\text{TiO}_2$ 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 $\text{WO}_3$ 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 $\text{BaTiO}_3$ 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. Nano Energy, 2018, 44, 364-370.	16.0	241
20	Scalable Polymer Nanocomposites with Record High-Temperature Capacitive Performance Enabled by Rationally Designed Nanostructured Inorganic Fillers. Advanced Materials, 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. Journal of Materials Chemistry A, 2017, 5, 4710-4718.	10.3	217
22	Ferroelectric polymers exhibiting behaviour reminiscent of a morphotropic phase boundary. Nature, 2018, 562, 96-100.	27.8	200
23	Ultrahigh electric displacement and energy density in gradient layer-structured BaTiO <sub>3</sub> /PVDF nanocomposites with an interfacial barrier effect. Journal of Materials Chemistry A, 2017, 5, 10849-10855.	10.3	197
24	Crystal Orientation Effect on Electric Energy Storage in Poly(vinylidene fluoride-co-trifluoroethylene) Nanocomposites. Journal of Materials Chemistry A, 2017, 5, 10849-10855.	4.8	196
25	Ferroelectric Polymers and Their Energy-Related Applications. Macromolecular Chemistry and Physics, 2016, 217, 1228-1244.	2.2	193
26	Ferroelectric Polymer Nanocomposites for Room-Temperature Electrocaloric Refrigeration. Advanced Materials, 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. Energy and Environmental Science, 2018, 11, 2046-2056.	30.8	188
28	Crosslinked fluoropolymers exhibiting superior high-temperature energy density and charge-discharge efficiency. Energy and Environmental Science, 2020, 13, 1279-1286.	30.8	188
29	A Modular Approach to Ferroelectric Polymers with Chemically Tunable Curie Temperatures and Dielectric Constants. Journal of the American Chemical Society, 2006, 128, 8120-8121.	13.7	183
30	Integrated Triboelectric Nanogenerators in the Era of the Internet of Things. Advanced Science, 2019, 6, 1802230.	11.2	174
31	Self-healing of electrical damage in polymers using superparamagnetic nanoparticles. Nature Nanotechnology, 2019, 14, 151-155.	31.5	169
32	High-Energy Storage Performance of (Pb <sub>0.87</sub> Ba <sub>0.1</sub> La <sub>0.02</sub> )(Zr <sub>0.68</sub> Sn <sub>0.24</sub> Ti <sub>0.08</sub> )O <sub>3</sub> Antiferroelectric Ceramics Fabricated by the Hot-Press Sintering Method. Journal of the American Ceramic Society, 2015, 98, 1175-1181.	3.8	168
33	Colossal Room-Temperature Electrocaloric Effect in Ferroelectric Polymer Nanocomposites Using Nanostructured Barium Strontium Titanates. ACS Nano, 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. Nano Energy, 2018, 54, 288-296.	16.0	161
35	Poly(methyl methacrylate)/boron nitride nanocomposites with enhanced energy density as high temperature dielectrics. Composites Science and Technology, 2017, 142, 139-144.	7.8	153
36	Multilayered hierarchical polymer composites for high energy density capacitors. Journal of Materials Chemistry A, 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 facile 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 &amp; 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- <i>co</i> -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 <sub>0.87</sub> Ba <sub>0.1</sub> La <sub>0.02</sub> )(Zr <sub>0.65</sub> Sn <sub>0.3</sub> Ti <sub>0.05</sub> )O <sub>3</sub> 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-co-chlorotrifluoro) Graft Copolymer. <i>Macromolecules</i> , 2011, 44, 2190-2199.	4.8	125
53	Largely enhanced dielectric properties of polymer composites with HfO <sub>2</sub> 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-Materials</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 $\text{Ba}_{0.67}\text{Sr}_{0.33}\text{TiO}_3$ 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- <i>Journal of Materials Chemistry A</i> , 2021, 9, 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 $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_{2-\delta}$ decorated $\text{Pr}_{0.5}\text{Ba}_{0.5}\text{CoO}_{3-\delta}$ 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. ACS Applied Materials & Interfaces, 2020, 12, 46767-46778.	8.0	85
74	Soft liquid-metal/elastomer foam with compression-adjustable thermal conductivity and electromagnetic interference shielding. Chemical Engineering Journal, 2021, 410, 128288.	12.7	85
75	Structural Insight in the Interfacial Effect in Ferroelectric Polymer Nanocomposites. Advanced Materials, 2020, 32, e2005431.	21.0	84
76	Structural Dependence of Phase Transition and Dielectric Relaxation in Ferroelectric Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 10411-10416.	2.6	83
77	Synthesis and Characterization of Self-Assembled Sulfonated Poly(styrene-b-vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 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 BaTiO3 nanofibers. Composites Science and Technology, 2018, 164, 214-221.	7.8	80
79	Enabling High-Energy-Density High-Efficiency Ferroelectric Polymer Nanocomposites with Rationally Designed Nanofillers. Advanced Functional Materials, 2021, 31, .	14.9	80
80	Electrical Storage in Poly(vinylidene fluoride) based Ferroelectric Polymers: Correlating Polymer Structure to Electrical Breakdown Strength. Chemistry of Materials, 2008, 20, 2078-2080.	6.7	79
81	Suppression of energy dissipation and enhancement of breakdown strength in ferroelectric polymer-graphene percolative composites. Journal of Materials Chemistry C, 2013, 1, 7034.	5.5	78
82	Effect of molecular weight on the dielectric breakdown strength of ferroelectric poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	3.3	73
83	Multiferroic Polymer Composites with Greatly Enhanced Magnetoelectric Effect under a Low Magnetic Bias. Advanced Materials, 2011, 23, 3853-3858.	21.0	72
84	Synergetic enhancement of mechanical and electrical strength in epoxy/silica nanocomposites via chemically-bonded interface. Composites Science and Technology, 2018, 167, 539-546.	7.8	70
85	Conjugated Polymers Containing Mixed-Ligand Ruthenium(II) Complexes. Synthesis, Characterization, and Investigation of Photoconductive Properties. Journal of the American Chemical Society, 2000, 122, 11806-11811.	13.7	69
86	Self-Healable Polymer Nanocomposites Capable of Simultaneously Recovering Multiple Functionalities. Advanced Functional Materials, 2016, 26, 3524-3531.	14.9	69
87	Multiferroic polymer composites with greatly enhanced magnetoelectric effect under a low magnetic bias. Advanced Materials, 2011, 23, 3853-8.	21.0	69
88	Ferroelectric Polymers Exhibiting Negative Longitudinal Piezoelectric Coefficient: Progress and Prospects. Advanced Science, 2020, 7, 1902468.	11.2	66
89	Ternary PVDF-based terpolymer nanocomposites with enhanced energy density and high power density. Composites Part A: Applied Science and Manufacturing, 2018, 109, 597-603.	7.6	64
90	Autonomous Self-Healing of Electrical Degradation in Dielectric Polymers Using In Situ Electroluminescence. Matter, 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 Hydrogenâ€‘Bonding Interactions. <i>Advanced Functional Materials</i> , 2014, 24, 1067-1073.	14.9	61
94	Organicâ€‘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 <sub>2</sub> -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	Nanoconfinementâ€‘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 Polysilsesquioxaneâ€‘Nafion Composite Membranes with High Proton Conductivity and Enhanced Selectivity. <i>ACS Applied Materials &amp; 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 Lowâ€‘Frequency Mechanical Energy Harvesting. <i>Advanced Energy Materials</i> , 2017, 7, 1601983.	19.5	51
106	Partially reduced Sn/SnO <sub>2</sub> 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 6, 18981-18988.	8.0	47
112	Self-Powered Rewritable Electrochromic Display based on $\text{WO}_3$ Film with Mechanochemically Synthesized $\text{MoO}_3$ Nanosheets. <i>ACS Applied Materials &amp; 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) Morphology. <i>ACS Applied Materials &amp; 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 $\text{Ba}_{0.67}\text{Sr}_{0.33}\text{TiO}_3$ 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) Advanced Technologies, 2018, 29, 1271-1277.	3.2	39
122	$\text{SnSe}_2$ Nanorods on Carbon Cloth as a Highly Selective, Active, and Flexible Electrocatalyst for Electrochemical Reduction of $\text{CO}_2$ 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- $\kappa$ 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. Journal Physics D: Applied Physics, 2010, 43, 205302.	2.8	37
128	Synthesis and characterization of compartmented Ca-alginate/silica self-healing fibers containing bituminous rejuvenator. Construction and Building Materials, 2018, 190, 623-631.	7.2	37
129	Microfluidic synthesis of polymeric fibers containing rejuvenating agent for asphalt self-healing. Construction and Building Materials, 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 <sub>2</sub> to formate. Electrochimica Acta, 2020, 334, 135563.	5.2	37
131	Self-healing capability of asphalt mixture containing polymeric composite fibers under acid and saline-alkali water solutions. Journal of Cleaner Production, 2020, 268, 122387.	9.3	37
132	Synthesis of Telechelic Fluoropolymers with Well-Defined Functional End Groups for Cross-Linked Networks and Nanocomposites. Macromolecules, 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. Macromolecules, 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. Polymer, 2012, 53, 1277-1281.	3.8	35
135	Multilayer Assembly and Patterning of Poly( <i>p</i> -phenylenevinylene)s via Covalent Coupling Reactions. Langmuir, 2004, 20, 9600-9606.	3.5	34
136	Synthesis and Solution Aggregation of Polystyrene- <i>b</i> -Oligo( <i>p</i> -phenyleneethynylene)- <i>b</i> -Polystyrene Triblock Copolymer. Macromolecules, 2004, 37, 1172-1174.	4.8	34
137	Towards multicaloric effect with ferroelectrics. Physical Review B, 2016, 94, .	3.2	33
138	Molecular Rectification in Conjugated Block Copolymer Photovoltaics. Journal of Physical Chemistry C, 2016, 120, 6978-6988.	3.1	32
139	A multifunctional smart window: detecting ultraviolet radiation and regulating the spectrum automatically. Journal of Materials Chemistry C, 2019, 7, 10446-10453.	5.5	32
140	Bilayer-Structured Polymer Nanocomposites Exhibiting High Breakdown Strength and Energy Density via Interfacial Barrier Design. ACS Applied Energy Materials, 2020, 3, 8055-8063.	5.1	32
141	Improper molecular ferroelectrics with simultaneous ultrahigh pyroelectricity and figures of merit. Science Advances, 2021, 7, .	10.3	32
142	Synthesis of Dumbbell-Shaped Triblock Structures Containing Ferroelectric Polymers and Oligoanilines with High Dielectric Constants. Macromolecules, 2008, 41, 6265-6268.	4.8	31
143	In-plane thermal conductivity of nanoscale polyaniline thin films. Applied Physics Letters, 2009, 95, .	3.3	31
144	Flexible thiophene polymers: a concerted macromolecular architecture for dielectrics. Polymer Chemistry, 2016, 7, 2929-2933.	3.9	31

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