Qing Wang

List of Publications by Year in descending order

277 papers	21,562 citations	9786 73 h-index	10734 138 g-index
279 all docs	279 docs citations	279 times ranked	12944 citing authors

#	Article	IF	Citations
1	A Dielectric Polymer with High Electric Energy Density and Fast Discharge Speed. Science, 2006, 313, 334-336.	12.6	2,068
2	Flexible high-temperature dielectric materials from polymer nanocomposites. Nature, 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. Energy and Environmental Science, 2015, 8, 922-931.	30.8	541
4	High-Temperature Dielectric Materials for Electrical Energy Storage. Annual Review of Materials Research, 2018, 48, 219-243.	9.3	540
5	Novel Ferroelectric Polymers for High Energy Density and Low Loss Dielectrics. Macromolecules, 2012, 45, 2937-2954.	4.8	535
6	Nanocomposites of Ferroelectric Polymers with TiO₂ Nanoparticles Exhibiting Significantly Enhanced Electrical Energy Density. Advanced Materials, 2009, 21, 217-221.	21.0	471
7	Polymer nanocomposites for electrical energy storage. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1421-1429.	2.1	451
8	Nanostructure-based WO3 photoanodes for photoelectrochemical water splitting. Physical Chemistry Chemical Physics, 2012, 14, 7894.	2.8	409
9	Ferroelectric polymer networks with high energy density and improved discharged efficiency for dielectric energy storage. Nature Communications, 2013, 4, 2845.	12.8	382
10	Electrical Energy Storage in Ferroelectric Polymer Nanocomposites Containing Surface-Functionalized BaTiO₃Nanoparticles. Chemistry of Materials, 2008, 20, 6304-6306.	6.7	339
11	Highâ€Energyâ€Density Dielectric Polymer Nanocomposites with Trilayered Architecture. Advanced Functional Materials, 2017, 27, 1606292.	14.9	338
12	Sandwich-structured polymer nanocomposites with high energy density and great chargeâ€“discharge efficiency at elevated temperatures. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9995-10000.	7.1	317
13	Highâ€Performance Polymers Sandwiched with Chemical Vapor Deposited Hexagonal Boron Nitrides as Scalable Highâ€Temperature Dielectric Materials. Advanced Materials, 2017, 29, 1701864.	21.0	270
14	A Scalable, Highâ€Throughput, and Environmentally Benign Approach to Polymer Dielectrics Exhibiting Significantly Improved Capacitive Performance at High Temperatures. Advanced Materials, 2018, 30, e1805672.	21.0	260
15	Tuning Nanofillers in In Situ Prepared Polyimide Nanocomposites for Highâ€Temperature Capacitive Energy Storage. Advanced Energy Materials, 2020, 10, 1903881.	19.5	259
16	Highly Stretchable Polymer Composite with Strainâ€Enhanced Electromagnetic Interference Shielding Effectiveness. Advanced Materials, 2020, 32, e1907499.	21.0	242
17	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
18	Scalable Polymer Nanocomposites with Record Highâ€Temperature Capacitive Performance Enabled by Rationally Designed Nanostructured Inorganic Fillers. Advanced Materials, 2019, 31, e1900875.	21.0	236

#	Article	IF	Citations
19	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
20	Ferroelectric polymers exhibiting behaviour reminiscent of a morphotropic phase boundary. Nature, 2018, 562, 96-100.	27.8	200
21	Ultrahigh electric displacement and energy density in gradient layer-structured BaTiO₃/PVDF nanocomposites with an interfacial barrier effect. Journal of Materials Chemistry A, 2017, 5, 10849-10855.	10.3	197
22	Crystal Orientation Effect on Electric Energy Storage in Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (fluoride-co	4.8	196
23	Ferroelectric Polymers and Their Energyâ€Related Applications. Macromolecular Chemistry and Physics, 2016, 217, 1228-1244.	2.2	193
24	Ferroelectric Polymer Nanocomposites for Roomâ€Temperature Electrocaloric Refrigeration. Advanced Materials, 2015, 27, 1450-1454.	21.0	192
25	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
26	Crosslinked fluoropolymers exhibiting superior high-temperature energy density and chargeâ€“discharge efficiency. Energy and Environmental Science, 2020, 13, 1279-1286.	30.8	188
27	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
28	Integrated Triboelectric Nanogenerators in the Era of the Internet of Things. Advanced Science, 2019, 6, 1802230.	11.2	174
29	Self-healing of electrical damage in polymers using superparamagnetic nanoparticles. Nature Nanotechnology, 2019, 14, 151-155.	31.5	169
30	Highâ€Energy Storage Performance of (Pb_{0.87}Ba_{0.1}La_{0.02})(Zr_{0.68}Sn_{0.24}Ti_{0.08})O₃ Antiferroelectric Ceramics Fabricated by the Hotâ€Press Sintering Method. Journal of the American Ceramic Society, 2015, 98, 1175-1181.	3.8	168
31	Colossal Room-Temperature Electrocaloric Effect in Ferroelectric Polymer Nanocomposites Using Nanostructured Barium Strontium Titanates. ACS Nano, 2015, 9, 7164-7174.	14.6	164
32	Multilayered ferroelectric polymer films incorporating low-dielectric-constant components for concurrent enhancement of energy density and chargeâ€“discharge efficiency. Nano Energy, 2018, 54, 288-296.	16.0	161
33	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
34	Multilayered hierarchical polymer composites for high energydensity capacitors. Journal of Materials Chemistry A, 2019, 7, 2965-2980.	10.3	153
35	A Hybrid Material Approach Toward Solutionâ€Processable Dielectrics Exhibiting Enhanced Breakdown Strength and High Energy Density. Advanced Functional Materials, 2015, 25, 3505-3513.	14.9	152
36	3D boron nitride foam filled epoxy composites with significantly enhanced thermal conductivity by a facial and scalable approach. Chemical Engineering Journal, 2020, 397, 125447.	12.7	152

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37	Relaxor Ferroelectricâ€Based Electrocaloric Polymer Nanocomposites with a Broad Operating Temperature Range and High Cooling Energy. Advanced Materials, 2015, 27, 2236-2241.	21.0	143
38	Dielectric materials for highâ€temperature capacitors. IET Nanodielectrics, 2018, 1, 32-40.	4.1	139
39	Gradient-layered polymer nanocomposites with significantly improved insulation performance for dielectric energy storage. Energy Storage Materials, 2020, 24, 626-634.	18.0	137
40	High-Temperature Poly(phthalazinone ether ketone) Thin Films for Dielectric Energy Storage. ACS Applied Materials & Interfaces, 2010, 2, 1286-1289.	8.0	136
41	Confined Ferroelectric Properties in Poly(Vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (Fluorideâ€coâ€Chl Energy Storage Applications. Advanced Functional Materials, 2011, 21, 3176-3188.	14.9	135
42	Multiscale structural engineering of dielectric ceramics for energy storage applications: from bulk to thin films. Nanoscale, 2020, 12, 17165-17184.	5.6	131
43	Effects of Polymorphism and Crystallite Size on Dipole Reorientation in Poly(vinylidene fluoride) and Its Random Copolymers. Macromolecules, 2010, 43, 6739-6748.	4.8	130
44	New Route Toward High-Energy-Density Nanocomposites Based on Chain-End Functionalized Ferroelectric Polymers. Chemistry of Materials, 2010, 22, 5350-5357.	6.7	129
45	Y doping and grain size co-effects on the electrical energy storage performance of (Pb0.87Ba0.1La0.02)(Zr0.65Sn0.3Ti0.05)O3 anti-ferroelectric ceramics. Ceramics International, 2014, 40, 5455-5460.	4.8	129
46	Poly(arylene ether)-Based Single-Ion Conductors for Lithium-Ion Batteries. Chemistry of Materials, 2016, 28, 188-196.	6.7	129
47	Multifunctional hydrogel enables extremely simplified electrochromic devices for smart windows and ionic writing boards. Materials Horizons, 2018, 5, 1000-1007.	12.2	129
48	Confinement-Induced High-Field Antiferroelectric-like Behavior in a Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (fluorid Graft Copolymer. Macromolecules, 2011, 44, 2190-2199.	4.8	125
49	Solutionâ€Processed Selfâ€Powered Transparent Ultraviolet Photodetectors with Ultrafast Response Speed for Highâ€Performance Communication System. Advanced Functional Materials, 2019, 29, 1809013.	14.9	123
50	Largely enhanced dielectric properties of polymer composites with HfO2 nanoparticles for high-temperature film capacitors. Composites Science and Technology, 2021, 201, 108528.	7.8	121
51	Fatigueâ€Free Aurivillius Phase Ferroelectric Thin Films with Ultrahigh Energy Storage Performance. Advanced Energy Materials, 2020, 10, 2001536.	19.5	114
52	Review of ionic liquids containing, polymer/inorganic hybrid electrolytes for lithium metal batteries. Materials and Design, 2020, 190, 108563.	7.0	111
53	Flexible energy harvesting polymer composites based on biofibril-templated 3-dimensional interconnected piezoceramics. Nano Energy, 2018, 50, 35-42.	16.0	107
54	Graphene on SiC as a Q-switcher for a 2ÂÎ¼m laser. Optics Letters, 2012, 37, 395.	3.3	104

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55	Bioinspired elastic piezoelectric composites for high-performance mechanical energy harvesting. Journal of Materials Chemistry A, 2018, 6, 14546-14552.	10.3	104
56	Toward Wearable Cooling Devices: Highly Flexible Electrocaloric Ba_{0.67}Sr_{0.33}TiO₃ Nanowire Arrays. Advanced Materials, 2016, 28, 4811-4816.	21.0	101
57	Microstructures and Dielectric Properties of the Ferroelectric Fluoropolymers Synthesized via Reductive Dechlorination of Poly(vinylidene fluoride-co-chlorotrifluoroethylene)s. Macromolecules, 2006, 39, 6962-6968.	4.8	100
58	Dielectric characteristics of poly(ether ketone ketone) for high temperature capacitive energy storage. Applied Physics Letters, 2009, 95, .	3.3	100
59	Understanding of Relaxor Ferroelectric Behavior of Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (fluorideâ€“tri 2731-2739.	4.8	93
60	Chirality-induced relaxor properties in ferroelectric polymers. Nature Materials, 2020, 19, 1169-1174.	27.5	93
61	Improved Energy Storage Properties Accompanied by Enhanced Interface Polarization in Annealed Microwaveâ€Sintered BST. Journal of the American Ceramic Society, 2015, 98, 3212-3222.	3.8	90
62	Advanced polymer dielectrics for high temperature capacitive energy storage. Journal of Applied Physics, 2020, 127, .	2.5	90
63	Polymers Containing Highly Polarizable Conjugated Side Chains as Highâ€Performance Allâ€Organic Nanodielectric Materials. Advanced Functional Materials, 2013, 23, 5638-5646.	14.9	88
64	Bioinspired Hierarchically Structured Allâ€Inorganic Nanocomposites with Significantly Improved Capacitive Performance. Advanced Functional Materials, 2020, 30, 2000191.	14.9	88
65	Oxygen vacancies-rich Ce0.9Gd0.1O2-Î´ decorated Pr0.5Ba0.5CoO3-Î´ bifunctional catalyst for efficient and long-lasting rechargeable Zn-air batteries. Applied Catalysis B: Environmental, 2020, 266, 118656.	20.2	87
66	Ultrahigh discharge efficiency and energy density achieved at low electric fields in sandwich-structured polymer films containing dielectric elastomers. Journal of Materials Chemistry A, 2019, 7, 3729-3736.	10.3	85
67	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
68	Structural Insight in the Interfacial Effect in Ferroelectric Polymer Nanocomposites. Advanced Materials, 2020, 32, e2005431.	21.0	84
69	Structural Dependence of Phase Transition and Dielectric Relaxation in Ferroelectric Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10411-10416.	2.6	83
70	Synthesis and Characterization of Self-Assembled Sulfonated Poly(styrene-b-vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (flu 2007, 19, 5937-5945.	6.7	81
71	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
72	Enabling Highâ€Energyâ€Density Highâ€Efficiency Ferroelectric Polymer Nanocomposites with Rationally Designed Nanofillers. Advanced Functional Materials, 2021, 31, .	14.9	80

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73	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
74	Suppression of energy dissipation and enhancement of breakdown strength in ferroelectric polymerâ€“graphene percolative composites. Journal of Materials Chemistry C, 2013, 1, 7034.	5.5	78
75	Effect of molecular weight on the dielectric breakdown strength of ferroelectric poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock	3.3	73
76	Bio-inspired hydrophobic/cancellous/hydrophilic Trimurti PVDF mat-based wearable triboelectric nanogenerator designed by self-assembly of electro-pore-creating. Nano Energy, 2019, 61, 486-495.	16.0	73
77	Multiferroic Polymer Composites with Greatly Enhanced Magnetoelectric Effect under a Low Magnetic Bias. Advanced Materials, 2011, 23, 3853-3858.	21.0	72
78	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
79	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
80	Selfâ€Healable Polymer Nanocomposites Capable of Simultaneously Recovering Multiple Functionalities. Advanced Functional Materials, 2016, 26, 3524-3531.	14.9	69
81	Room-temperature ionic liquids modified zeolite SSZ-13 membranes for CO2/CH4 separation. Journal of Membrane Science, 2017, 524, 12-19.	8.2	67
82	Ferroelectric Polymers Exhibiting Negative Longitudinal Piezoelectric Coefficient: Progress and Prospects. Advanced Science, 2020, 7, 1902468.	11.2	66
83	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
84	Autonomous Self-Healing of Electrical Degradation in Dielectric Polymers Using In Situ Electroluminescence. Matter, 2020, 2, 451-463.	10.0	63
85	Progress in lead-free piezoelectric nanofiller materials and related composite nanogenerator devices. Nanoscale Advances, 2020, 2, 3131-3149.	4.6	62
86	Multiferroic Polymer Laminate Composites Exhibiting High Magnetoelectric Response Induced by Hydrogenâ€Bonding Interactions. Advanced Functional Materials, 2014, 24, 1067-1073.	14.9	61
87	Organicâ€“inorganic hybrid electrolytes from ionic liquid-functionalized octasilsesquioxane for lithium metal batteries. Journal of Materials Chemistry A, 2017, 5, 18012-18019.	10.3	60
88	Recent progress in polymer dielectrics containing boron nitride nanosheets for high energy density capacitors. High Voltage, 2020, 5, 365-376.	4.7	60
89	A microcube-based hybrid piezocomposite as a flexible energy generator. RSC Advances, 2017, 7, 32502-32507.	3.6	59
90	Mechanical Strainâ€Tunable Microwave Magnetism in Flexible CuFe₂O₄ Epitaxial Thin Film for Wearable Sensors. Advanced Functional Materials, 2018, 28, 1705928.	14.9	58

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91	Nanoconfinementâ€Induced Giant Electrocaloric Effect in Ferroelectric Polymer Nanowire Array Integrated with Aluminum Oxide Membrane to Exhibit Record Cooling Power Density. Advanced Materials, 2019, 31, e1806642.	21.0	56
92	Acid-Functionalized Polysilsesquioxaneâ^'Nafion Composite Membranes with High Proton Conductivity and Enhanced Selectivity. ACS Applied Materials & Interfaces, 2009, 1, 2573-2579.	8.0	55
93	Highly (h0h)-oriented silicalite-1 membranes for butane isomer separation. Journal of Membrane Science, 2017, 540, 50-59.	8.2	54
94	Sandwich structured poly(vinylidene fluoride)/polyacrylate elastomers with significantly enhanced electric displacement and energy density. Journal of Materials Chemistry A, 2018, 6, 24367-24377.	10.3	54
95	Structure dependence of water vapor permeation in polymer nanocomposite membranes investigated by positron annihilation lifetime spectroscopy. Journal of Membrane Science, 2018, 549, 581-587.	8.2	52
96	Development of fully functionalized photorefractive polymers. Macromolecular Rapid Communications, 2000, 21, 723-745.	3.9	51
97	Achieving high electric energy storage in a polymer nanocomposite at low filling ratios using a highly polarizable phthalocyanine interphase. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 1669-1680.	2.1	51
98	Large enhancement of the electrocaloric effect in PLZT ceramics prepared by hot-pressing. APL Materials, 2016, 4, .	5.1	51
99	Flexible Ionic Diodes for Lowâ€Frequency Mechanical Energy Harvesting. Advanced Energy Materials, 2017, 7, 1601983.	19.5	51
100	Partially reduced Sn/SnO2 porous hollow fiber: A highly selective, efficient and robust electrocatalyst towards carbon dioxide reduction. Electrochimica Acta, 2018, 285, 70-77.	5.2	51
101	Highly Conductive Aromatic Ionomers with Perfluorosulfonic Acid Side Chains for Elevated Temperature Fuel Cells. Macromolecules, 2011, 44, 4605-4609.	4.8	50
102	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. Journal of the American Chemical Society, 1998, 120, 12860-12868.	13.7	49
103	Harvesting Energy from Human Activity: Ferroelectric Energy Harvesters for Portable, Implantable, and Biomedical Electronics. Energy Technology, 2018, 6, 791-812.	3.8	49
104	Synthesis and surface modification of PbSe/PbS coreâ€“shell nanocrystals for potential device applications. Nanotechnology, 2006, 17, 5428-5434.	2.6	47
105	High Energy Density and Breakdown Strength from Î² and Î³ Phases in Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 6, 18981-18988.	8.0	47
106	NiO hierarchical hollow nanofibers as high-performance supercapacitor electrodes. RSC Advances, 2015, 5, 96205-96212.	3.6	47
107	A Novel Softâ€Magnetic B2â€Based Multiprincipalâ€Element Alloy with a Uniform Distribution of Coherent Bodyâ€Centeredâ€Cubic Nanoprecipitates. Advanced Materials, 2021, 33, e2006723.	21.0	46
108	Enhanced Permittivity and Energy Density in Neat Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (fluoride-trifluoroethylene Morphology. ACS Applied Materials & Interfaces, 2014, 6, 9584-9589.	8.0	43

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109	Superior electrostrictive strain achieved under low electric fields in relaxor ferroelectric polymers. Journal of Materials Chemistry A, 2019, 7, 5201-5208.	10.3	43
110	Significantly improved breakdown strength and energy density of tri-layered polymer nanocomposites with optimized graphene oxide. Composites Science and Technology, 2020, 186, 107912.	7.8	43
111	Pervaporation removal of methanol from methanol/organic azeotropes using organosilica membranes: Experimental and modeling. Journal of Membrane Science, 2020, 610, 118284.	8.2	43
112	Ultrahigh charge-discharge efficiency and enhanced energy density of the sandwiched polymer nanocomposites with poly(methyl methacrylate) layer. Composites Science and Technology, 2021, 202, 108591.	7.8	43
113	Broadband mid-infrared coverage (2â€“17â€‰â€‰Î¼m) with few-cycle pulses via cascaded parametric processes. Optics Letters, 2019, 44, 2566.	3.3	43
114	Ferroelectric Polymer Nanocomposites with Complementary Nanostructured Fillers for Electrocaloric Cooling with High Power Density and Great Efficiency. ACS Applied Energy Materials, 2018, 1, 1344-1354.	5.1	42
115	Enhanced pyroelectric properties of porous Ba0.67Sr0.33TiO3 ceramics fabricated with carbon nanotubes. Journal of Alloys and Compounds, 2015, 636, 93-96.	5.5	41
116	High breakdown strength and low loss binary polymer blends of poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (fluorideâ Advanced Technologies, 2018, 29, 1271-1277.	3.2	39
117	SnSe₂ Nanorods on Carbon Cloth as a Highly Selective, Active, and Flexible Electrocatalyst for Electrochemical Reduction of CO₂ into Formate. ACS Applied Energy Materials, 2019, 2, 7655-7662.	5.1	39
118	Largely enhanced energy storage performance of sandwich-structured polymer nanocomposites with synergistic inorganic nanowires. Ceramics International, 2019, 45, 8216-8221.	4.8	39
119	Controlling Chain Conformations of Highâ€k Fluoropolymer Dielectrics to Enhance Charge Mobilities in Rubrene Singleâ€Crystal Fieldâ€Effect Transistors. Advanced Materials, 2016, 28, 10095-10102.	21.0	38
120	Size effects of electrocaloric cooling in ferroelectric nanowires. Journal of the American Ceramic Society, 2018, 101, 1566-1575.	3.8	38
121	Synthesis and Structure/Property Correlation of Fully Functionalized Photorefractive Polymers. Macromolecules, 2002, 35, 4636-4645.	4.8	37
122	Doping dependence of electrical and thermal conductivity of nanoscale polyaniline thin films. Journal Physics D: Applied Physics, 2010, 43, 205302.	2.8	37
123	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
124	Microfluidic synthesis of polymeric fibers containing rejuvenating agent for asphalt self-healing. Construction and Building Materials, 2019, 219, 176-183.	7.2	37
125	High efficiency and selectivity from synergy: Bi nanoparticles embedded in nitrogen doped porous carbon for electrochemical reduction of CO2 to formate. Electrochimica Acta, 2020, 334, 135563.	5.2	37
126	Synthesis of Telechelic Fluoropolymers with Well-Defined Functional End Groups for Cross-Linked Networks and Nanocomposites. Macromolecules, 2007, 40, 4121-4123.	4.8	36

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127	Self-Assembly and Optical Property of Triblock Copolymers Made of Polystyrene and Oligo(p-phenyleneethynylene) in Different Mixtures of Toluene and Hexane. Macromolecules, 2007, 40, 6692-6698.	4.8	35
128	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
129	Intra-pulse difference-frequency generation of mid-infrared (27â€“20â€‰â€‰Î¼m) by random quasi-phase-matching. Optics Letters, 2019, 44, 2986.	3.3	35
130	Multilayer Assembly and Patterning of Poly(p-phenylenevinylene)s via Covalent Coupling Reactions. Langmuir, 2004, 20, 9600-9606.	3.5	34
131	Synthesis and Solution Aggregation of Polystyreneâ^'Oligo(p-phenyleneethynylene)â^'Polystyrene Triblock Copolymer. Macromolecules, 2004, 37, 1172-1174.	4.8	34
132	Towards multicaloric effect with ferroelectrics. Physical Review B, 2016, 94, .	3.2	33
133	Molecular Rectification in Conjugated Block Copolymer Photovoltaics. Journal of Physical Chemistry C, 2016, 120, 6978-6988.	3.1	32
134	A multifunctional smart window: detecting ultraviolet radiation and regulating the spectrum automatically. Journal of Materials Chemistry C, 2019, 7, 10446-10453.	5.5	32
135	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
136	1645â€…nm coherent Doppler wind lidar with a single-frequency Er:YAG laser. Optics Express, 2020, 28, 14694.	3.4	32
137	Efficient femtosecond mid-infrared generation based on a Cr:ZnS oscillator and step-index fluoride fibers. Optics Letters, 2019, 44, 2390.	3.3	32
138	Synthesis of Dumbbell-Shaped Triblock Structures Containing Ferroelectric Polymers and Oligoanilines with High Dielectric Constants. Macromolecules, 2008, 41, 6265-6268.	4.8	31
139	In-plane thermal conductivity of nanoscale polyaniline thin films. Applied Physics Letters, 2009, 95, .	3.3	31
140	A binary solvent system for improved liquid phase exfoliation of pristine graphene materials. Carbon, 2015, 94, 405-411.	10.3	31
141	Flexible thiophene polymers: a concerted macromolecular architecture for dielectrics. Polymer Chemistry, 2016, 7, 2929-2933.	3.9	31
142	Towards electrocaloric heat pumpâ€”A relaxor ferroelectric polymer exhibiting large electrocaloric response at low electric field. Applied Physics Letters, 2018, 113, .	3.3	31
143	Enhanced electrocaloric effect in lead-free organic and inorganic relaxor ferroelectric composites near room temperature. Applied Physics Letters, 2018, 112, .	3.3	31
144	Tuning the Dielectric Properties of Organic Semiconductors via Salt Doping. Journal of Physical Chemistry B, 2013, 117, 15866-15874.	2.6	30

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145	High electrocaloric effect in hotâ€pressed Pb_{0.85}La_{0.1}(Zr_{0.65}Ti_{0.35})O₃ ceramics with a wide operating temperature range. Journal of the American Ceramic Society, 2017, 100, 4581-4589.	3.8	30
146	Microfluidic Synthesis of Ca-Alginate Microcapsules for Self-Healing of Bituminous Binder. Materials, 2018, 11, 630.	2.9	30
147	Insights into Ni-Fe couple in perovskite electrocatalysts for highly efficient electrochemical oxygen evolution. Electrochimica Acta, 2019, 293, 240-246.	5.2	30
148	High Capacity Lithium Ion Battery Anodes Using Sn Nanowires Encapsulated Al₂O₃ Tubes in Carbon Matrix. Advanced Materials Interfaces, 2016, 3, 1500491.	3.7	29
149	Biocompatible and Flexible Hydrogel Diodeâ€Based Mechanical Energy Harvesting. Advanced Materials Technologies, 2017, 2, 1700118.	5.8	29
150	Synergistic Enhancement of Thermal Conductivity and Dielectric Properties in Al2O3/BaTiO3/PP Composites. Materials, 2018, 11, 1536.	2.9	29
151	Cluster-formula-embedded machine learning for design of multicomponent Î²-Ti alloys with low Youngâ€™s modulus. Npj Computational Materials, 2020, 6, .	8.7	29
152	Synthesis of triblock copolymers composed of poly(vinylidene fluoride-co-hexafluoropropylene) and ionic liquid segments. Journal of Materials Chemistry, 2012, 22, 341-344.	6.7	28
153	Ferroelectric Poly(vinylidene fluorideâ€trifluoroethyleneâ€chlorotrifluoroethylene)s: Effect of Molecular Weight on Dielectric Property. Macromolecular Symposia, 2009, 279, 52-58.	0.7	27
154	In situ exsolved Co nanoparticles coupled on LiCoO₂ nanofibers to induce oxygen electrocatalysis for rechargeable Znâ€“air batteries. Journal of Materials Chemistry A, 2020, 8, 19946-19953.	10.3	27
155	Synthesis of poly(vinylidene fluoride-co-bromotrifluoroethylene) and effects of molecular defects on microstructure and dielectric properties. Polymer Chemistry, 2014, 5, 5957-5966.	3.9	26
156	Photovoltaic Performance of Block Copolymer Devices Is Independent of the Crystalline Texture in the Active Layer. Macromolecules, 2016, 49, 4599-4608.	4.8	25
157	Effect of preparation process on properties of PLZT (9/65/35) transparent ceramics. Journal of Alloys and Compounds, 2017, 723, 602-610.	5.5	25
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