

# Jun-Wei Zha

## List of Publications by Year in descending order

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263  
papers

16,718  
citations

13099

68  
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18130

120  
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269  
all docs

269  
docs citations

269  
times ranked

9616  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamentals, processes and applications of high-permittivity polymer matrix composites. Progress in Materials Science, 2012, 57, 660-723.	32.8	1,467
2	Flexible Nanodielectric Materials with High Permittivity for Power Energy Storage. Advanced Materials, 2013, 25, 6334-6365.	21.0	1,204
3	Carbon nanotube composites with high dielectric constant at low percolation threshold. Applied Physics Letters, 2005, 87, 042903.	3.3	460
4	1D/2D Carbon Nanomaterial-Polymer Dielectric Composites with High Permittivity for Power Energy Storage Applications. Small, 2016, 12, 1688-1701.	10.0	405
5	Improving Dielectric Properties of BaTiO <sub>3</sub> /Ferroelectric Polymer Composites by Employing Surface Hydroxylated BaTiO <sub>3</sub> Nanoparticles. ACS Applied Materials & Interfaces, 2011, 3, 2184-2188.	8.0	388
6	Advanced Calcium Copper Titanate/Polyimide Functional Hybrid Films with High Dielectric Permittivity. Advanced Materials, 2009, 21, 2077-2082.	21.0	378
7	Giant Dielectric Permittivity Nanocomposites: Realizing True Potential of Pristine Carbon Nanotubes in Polyvinylidene Fluoride Matrix through an Enhanced Interfacial Interaction. Journal of Physical Chemistry C, 2011, 115, 5515-5521.	3.1	341
8	Fabrication and Dielectric Characterization of Advanced BaTiO <sub>3</sub> /Polyimide Nanocomposite Films with High Thermal Stability. Advanced Functional Materials, 2008, 18, 1509-1517.	14.9	294
9	Improved Dielectric Properties of Nanocomposites Based on Poly(vinylidene fluoride) and Poly(vinyl Tj ETQq1 1 0.784314 rgBT /Over	8.0	277
10	Recent Progress and Future Prospects on All-Organic Polymer Dielectrics for Energy Storage Capacitors. Chemical Reviews, 2022, 122, 3820-3878.	47.7	240
11	Influence of silane coupling agent on morphology and dielectric property in BaTiO <sub>3</sub> /polyvinylidene fluoride composites. Applied Physics Letters, 2006, 89, 112902.	3.3	224
12	Dielectric properties of reduced graphene oxide/polypropylene composites with ultralow percolation threshold. Polymer, 2013, 54, 1916-1922.	3.8	204
13	Improved dielectric, tensile and energy storage properties of surface rubberized BaTiO <sub>3</sub> /polypropylene nanocomposites. Nano Energy, 2018, 48, 144-151.	16.0	190
14	Fabrication and dielectric properties of advanced high permittivity polyaniline/poly(vinylidene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 2441.	6.7	188
15	Significantly enhanced low-frequency dielectric permittivity in the BaTiO <sub>3</sub> /poly(vinylidene fluoride) nanocomposite. Applied Physics Letters, 2007, 90, 012901.	3.3	180
16	Study on microstructure and dielectric property of the BaTiO <sub>3</sub> /epoxy resin composites. Composites Science and Technology, 2008, 68, 171-177.	7.8	180
17	Dielectric behavior of a metal-polymer composite with low percolation threshold. Applied Physics Letters, 2006, 89, 072902.	3.3	179
18	Functionalized graphene-BaTiO <sub>3</sub> /ferroelectric polymer nanodielectric composites with high permittivity, low dielectric loss, and low percolation threshold. Journal of Materials Chemistry A, 2013, 1, 6162.	10.3	179

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19	Morphology and Dielectric Property of Homogenous BaTiO <sub>3</sub> /PVDF Nanocomposites Prepared via the Natural Adsorption Action of Nanosized BaTiO <sub>3</sub> . <i>Macromolecular Rapid Communications</i> , 2005, 26, 1185-1189.	3.9	170
20	Tailored Dielectric Properties based on Microstructure Change in BaTiO <sub>3</sub> -Carbon Nanotube/Polyvinylidene Fluoride Three-Phase Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13204-13209.	3.1	168
21	High-temperature polyimide dielectric materials for energy storage: theory, design, preparation and properties. <i>Energy and Environmental Science</i> , 2022, 15, 56-81.	30.8	166
22	Improved Thermal Conductivity and Flame Retardancy in Polystyrene/Poly(vinylidene fluoride) Blends by Controlling Selective Localization and Surface Modification of SiC Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 6915-6924.	8.0	153
23	Dependence of dielectric behavior on the physical property of fillers in the polymer-matrix composites. <i>Synthetic Metals</i> , 2004, 146, 79-84.	3.9	138
24	Electrochemical performance of all-solid-state lithium batteries using inorganic lithium garnets particulate reinforced PEO/LiClO <sub>4</sub> electrolyte. <i>Electrochimica Acta</i> , 2017, 253, 430-438.	5.2	133
25	Polymer-based dielectrics with high permittivity for electric energy storage: A review. <i>Nano Energy</i> , 2021, 89, 106438.	16.0	130
26	Dielectric behavior and dependence of percolation threshold on the conductivity of fillers in polymer-semiconductor composites. <i>Applied Physics Letters</i> , 2004, 85, 97-99.	3.3	128
27	Influence of aspect ratio of carbon nanotube on percolation threshold in ferroelectric polymer nanocomposite. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	125
28	BaTiO <sub>3</sub> -carbon nanotube/polyvinylidene fluoride three-phase composites with high dielectric constant and low dielectric loss. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	123
29	Dielectric properties of upright carbon fiber filled poly(vinylidene fluoride) composite with low percolation threshold and weak temperature dependence. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	122
30	Supersensitive linear piezoresistive property in carbon nanotubes/silicone rubber nanocomposites. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	117
31	High thermal conductivity and high electrical resistivity of poly(vinylidene fluoride)/polystyrene blends by controlling the localization of hybrid fillers. <i>Composites Science and Technology</i> , 2013, 89, 142-148.	7.8	115
32	High energy density and discharge efficiency polypropylene nanocomposites for potential high-power capacitor. <i>Energy Storage Materials</i> , 2020, 27, 443-452.	18.0	113
33	Enhanced thermal conductivity and mechanical property through boron nitride hot string in polyvinylidene fluoride fibers by electrospinning. <i>Composites Science and Technology</i> , 2018, 156, 1-7.	7.8	109
34	Giant dielectric constant and resistance-pressure sensitivity in carbon nanotubes/rubber nanocomposites with low percolation threshold. <i>Applied Physics Letters</i> , 2007, 90, 042914.	3.3	108
35	High thermal conductivity and excellent electrical insulation performance in double-percolated three-phase polymer nanocomposites. <i>Composites Science and Technology</i> , 2017, 144, 36-42.	7.8	107
36	Surface-Functionalized MWNTs with Emeraldine Base: Preparation and Improving Dielectric Properties of Polymer Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4557-4560.	8.0	106

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37	Positive piezoresistive behavior of electrically conductive alkyl-functionalized graphene/polydimethylsilicone nanocomposites. <i>Journal of Materials Chemistry C</i> , 2013, 1, 515-521.	5.5	106
38	Size-dependent low-frequency dielectric properties in the BaTiO <sub>3</sub> /poly(vinylidene fluoride) nanocomposite films. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	104
39	Past and future on nanodielectrics. <i>IET Nanodielectrics</i> , 2018, 1, 41-47.	4.1	103
40	Increased electroaction through a molecular flexibility tuning process in TiO <sub>2</sub> @polydimethylsilicone nanocomposites. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3140.	10.3	100
41	Polymer composites filled with core@double-shell structured fillers: Effects of multiple shells on dielectric and thermal properties. <i>Composites Science and Technology</i> , 2019, 181, 107686.	7.8	99
42	Highly efficient antifogging and antibacterial food packaging film fabricated by novel quaternary ammonium chitosan composite. <i>Food Chemistry</i> , 2020, 308, 125682.	8.2	99
43	Effects of carbon nanotubes aspect ratio on the qualitative and quantitative aspects of frequency response of electrical conductivity and dielectric permittivity in the carbon nanotube/polymer composites. <i>Carbon</i> , 2013, 54, 105-112.	10.3	98
44	Ultrasonication assisted preparation of carbonaceous nanoparticles modified polyurethane foam with good conductivity and high oil absorption properties. <i>Nanoscale</i> , 2014, 6, 13748-13753.	5.6	98
45	High dielectric permittivity silver/polyimide composite films with excellent thermal stability. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	93
46	Electrical property and microstructure analysis of poly(vinylidene fluoride)-based composites with different conducting fillers. <i>Chemical Physics Letters</i> , 2007, 438, 196-202.	2.6	92
47	Preparation and dielectric properties of surface modified TiO <sub>2</sub> /silicone rubber nanocomposites. <i>Materials Letters</i> , 2011, 65, 3430-3432.	2.6	92
48	Broad-frequency dielectric behaviors in multiwalled carbon nanotube/rubber nanocomposites. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	89
49	Effect of the selective localization of carbon nanotubes in polystyrene/poly(vinylidene fluoride) blends on their dielectric, thermal, and mechanical properties. <i>Materials &amp; Design</i> , 2014, 56, 807-815.	5.1	89
50	Improvement of space charge suppression of polypropylene for potential application in HVDC cables. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 2337-2343.	2.9	89
51	Effects of surface modification of carbon nanotubes on the microstructure and electrical properties of carbon nanotubes/rubber nanocomposites. <i>Chemical Physics Letters</i> , 2008, 457, 352-356.	2.6	85
52	Enhanced dielectric properties and positive temperature coefficient effect in the binary polymer composites with surface modified carbon black. <i>Journal of Materials Chemistry</i> , 2008, 18, 229-234.	6.7	85
53	Preparation and dielectric properties of core@shell structured Ag@polydopamine/poly(vinylidene fluoride) nanocomposites. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10743-10750.	7.8	85
54	High-performance strain sensors based on functionalized graphene nanoplates for damage monitoring. <i>Composites Science and Technology</i> , 2016, 123, 32-38.	7.8	84

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55	Complementary percolation characteristics of carbon fillers based electrically percolative thermoplastic elastomer composites. <i>Composites Science and Technology</i> , 2011, 72, 28-35.	7.8	83
56	Highly improved electro-actuation of dielectric elastomers by molecular grafting of azobenzenes to silicon rubber. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4883-4889.	5.5	82
57	Soft, tough, and fast polyacrylate dielectric elastomer for non-magnetic motor. <i>Nature Communications</i> , 2021, 12, 4517.	12.8	82
58	Novel antimicrobial packaging film based on porous poly(lactic acid) nanofiber and polymeric coating for humidity-controlled release of thyme essential oil. <i>LWT - Food Science and Technology</i> , 2021, 135, 110034.	5.2	81
59	Temperature dependence of electric and dielectric behaviors of Ni/polyvinylidene fluoride composites. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	80
60	Low dielectric permittivity and high thermal conductivity silicone rubber composites with micro-nano-sized particles. <i>Applied Physics Letters</i> , 2012, 101, 062905.	3.3	78
61	Tuning of thermal and dielectric properties for epoxy composites filled with electrospun alumina fibers and graphene nanoplatelets through hybridization. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7195-7202.	5.5	78
62	Dielectric properties and effect of electrical aging on space charge accumulation in polyimide/TiO <sub>2</sub> nanocomposite films. <i>Journal of Applied Physics</i> , 2010, 108, 094113.	2.5	77
63	High performance hybrid carbon fillers/binary polymer nanocomposites with remarkably enhanced positive temperature coefficient effect of resistance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 843-851.	10.3	76
64	Effect of BaTiO <sub>3</sub> size on dielectric property of BaTiO <sub>3</sub> /PVDF composites. <i>Journal of Electroceramics</i> , 2008, 21, 381-384.	2.0	75
65	Effect of tensile strain on morphology and dielectric property in nanotube/polymer nanocomposites. <i>Applied Physics Letters</i> , 2007, 90, 012907.	3.3	74
66	Dielectric Elastomer Generator with Improved Energy Density and Conversion Efficiency Based on Polyurethane Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 5237-5243.	8.0	74
67	Effect of micro-Si <sub>3</sub> N <sub>4</sub> -nano-Al <sub>2</sub> O <sub>3</sub> co-filled particles on thermal conductivity, dielectric and mechanical properties of silicone rubber composites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 1989-1996.	2.9	73
68	Mechanical and dielectric properties of graphene incorporated polypropylene nanocomposites using polypropylene-graft-maleic anhydride as a compatibilizer. <i>Composites Science and Technology</i> , 2017, 153, 111-118.	7.8	73
69	Stretch-Modulated Carbon Nanotube Alignment in Ferroelectric Polymer Composites: Characterization of the Orientation State and Its Influence on the Dielectric Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20011-20017.	3.1	72
70	Enhanced electrical conductivity in chemically modified carbon nanotube/methylvinyl silicone rubber nanocomposite. <i>European Polymer Journal</i> , 2007, 43, 4924-4930.	5.4	71
71	Experimental study and theoretical prediction of dielectric permittivity in BaTiO <sub>3</sub> /polyimide nanocomposite films. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	71
72	All-organic dielectric polymer films exhibiting superior electric breakdown strength and discharged energy density by adjusting the electrode dielectric interface with an organic nano-interlayer. <i>Energy and Environmental Science</i> , 2021, 14, 5513-5522.	30.8	67

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73	Novel high-dielectric-permittivity poly(vinylidene fluoride)/polypropylene blend composites: The influence of the poly(vinylidene fluoride) concentration and compatibilizer. <i>Journal of Applied Polymer Science</i> , 2007, 105, 3649-3655.	2.6	66
74	On improvement of mechanical and thermo-mechanical properties of glass fabric/epoxy composites by incorporating CNT $\alpha$ -Al <sub>2</sub> O <sub>3</sub> hybrids. <i>Composites Science and Technology</i> , 2014, 103, 36-43.	7.8	65
75	Enhanced energy conversion efficiency in the surface modified BaTiO <sub>3</sub> nanoparticles/polyurethane nanocomposites for potential dielectric elastomer generators. <i>Nano Energy</i> , 2019, 59, 363-371.	16.0	65
76	Significant temperature and pressure sensitivities of electrical properties in chemically modified multiwall carbon nanotube/methylvinyl silicone rubber nanocomposites. <i>Applied Physics Letters</i> , 2006, 89, 182902.	3.3	64
77	Preparation and dielectric behaviors of thermoplastic and thermosetting polymer nanocomposite films containing BaTiO <sub>3</sub> nanoparticles with different diameters. <i>Composites Science and Technology</i> , 2013, 80, 66-72.	7.8	64
78	Mechanism analysis of improved corona-resistant characteristic in polyimide/TiO <sub>2</sub> nanohybrid films. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	63
79	Tuning the Dielectric Properties of Polystyrene/Poly(vinylidene fluoride) Blends by Selectively Localizing Carbon Black Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2505-2515.	2.6	62
80	Dually Actuated Triple Shape Memory Polymers of Cross-Linked Polycyclooctene $\alpha$ -Carbon Nanotube/Polyethylene Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 20051-20059.	8.0	61
81	Significantly improved dielectric properties of polylactide nanocomposites via TiO <sub>2</sub> decorated carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 127, 105650.	7.6	59
82	Theoretical prediction and experimental study of dielectric properties in poly(vinylidene fluoride) matrix composites with micronanosize BaTiO <sub>3</sub> filler. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	57
83	Remarkable selective localization of modified nanoscaled carbon black and positive temperature coefficient effect in binary-polymer matrix composites. <i>Journal of Materials Chemistry</i> , 2008, 18, 2685.	6.7	56
84	Effect of shell $\alpha$ layer thickness on dielectric properties in Ag@TiO <sub>2</sub> core@shell nanoparticles filled ferroelectric poly(vinylidene fluoride) composites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 739-742.	1.8	56
85	Dielectric properties of poly(vinylidene fluoride) nanocomposites filled with surface coated BaTiO <sub>3</sub> by SnO <sub>2</sub> nanodots. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	56
86	A remarkable suppression on space charge in isotactic polypropylene by inducing the $\beta$ -crystal formation. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	55
87	Preparation, microstructure and properties of polyethylene/alumina nanocomposites for HVDC insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 3350-3356.	2.9	55
88	Advanced dielectric properties of BaTiO <sub>3</sub> /polyvinylidene-fluoride nanocomposites with sandwich multi-layer structure. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2012, 19, 1312-1317.	2.9	54
89	Rescaled temperature dependence of dielectric behavior of ferroelectric polymer composites. <i>Applied Physics Letters</i> , 2005, 86, 172905.	3.3	52
90	Tailored high cycling performance in a solid polymer electrolyte with perovskite-type Li <sub>0.33</sub> La <sub>0.557</sub> TiO <sub>3</sub> nanofibers for all-solid-state lithium ion batteries. <i>Dalton Transactions</i> , 2019, 48, 3263-3269.	3.3	52

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91	Enhanced dielectric properties and energy storage of the sandwich-structured poly(vinylidene fluoride)/poly(ethylene oxide) nanofibres. IET Nanodielectrics, 2019, 2, 103-108.	4.1	52
92	Enhanced breakdown strength of poly(vinylidene fluoride) utilizing rubber nanoparticles for energy storage application. Applied Physics Letters, 2016, 109, .	3.3	51
93	Advanced dielectric polymer nanocomposites by constructing a ternary continuous structure in polymer blends containing poly(methyl methacrylate) (PMMA) modified carbon nanotubes. Journal of Materials Chemistry A, 2014, 2, 10614.	10.3	50
94	Morphology and crystalline-phase-dependent electrical insulating properties in tailored polypropylene for HVDC cables. Applied Physics Letters, 2016, 109, .	3.3	50
95	Dielectric Properties of Polyimide-Mica Hybrid Films. Macromolecular Rapid Communications, 2005, 26, 1473-1477.	3.9	47
96	Electrical properties of TiO <sub>2</sub> -filled polyimide nanocomposite films prepared via an in situ polymerization process. Synthetic Metals, 2010, 160, 2670-2674.	3.9	47
97	Effect of aspect ratio of multiwall carbon nanotubes on resistance-pressure sensitivity of rubber nanocomposites. Applied Physics Letters, 2007, 91, .	3.3	46
98	Enhancement of breakdown strength of multilayer polymer film through electric field redistribution and defect modification. Applied Physics Letters, 2019, 114, 103702.	3.3	46
99	Mechanical, Thermal, and Electrical Properties of BN-Epoxy Composites Modified with Carboxyl-Terminated Butadiene Nitrile Liquid Rubber. Polymers, 2019, 11, 1548.	4.5	45
100	High-permittivity polymer nanocomposites: Influence of interface on dielectric properties. Journal of Advanced Dielectrics, 2013, 03, 1330004.	2.4	44
101	Thermally stable polyimide nanocomposite films from electrospun BaTiO <sub>3</sub> fibers for high-density energy storage capacitors. RSC Advances, 2015, 5, 44749-44755.	3.6	44
102	Distinctive electrical properties in sandwich-structured Al <sub>2</sub> O <sub>3</sub> /low density polyethylene nanocomposites. Applied Physics Letters, 2016, 108, .	3.3	44
103	Remarkable electrically actuation performance in advanced acrylic-based dielectric elastomers without pre-strain at very low driving electric field. Polymer, 2018, 137, 269-275.	3.8	43
104	Tailored Ultralow Dielectric Permittivity in High-Performance Fluorinated Polyimide Films by Adjusting Nanoporous Characteristics. Journal of Physical Chemistry C, 2012, 116, 23676-23681.	3.1	42
105	Dielectric properties of LTNO ceramics and LTNO/PVDF composites. Ceramics International, 2005, 31, 349-351.	4.8	41
106	The influence of TiO <sub>2</sub> nanoparticle incorporation on surface potential decay of corona-resistant polyimide nanocomposite films. Journal of Electrostatics, 2011, 69, 255-260.	1.9	41
107	Composition dependence of dielectric properties, elastic modulus, and electroactivity in (carbon) nanotube/polyimide nanocomposites. Journal of Applied Physics, 2012, 112, 4440-4445.	2.6	41
108	Enhanced positive temperature coefficient behavior of the high-density polyethylene composites with multi-dimensional carbon fillers and their use for temperature-sensing resistors. RSC Advances, 2017, 7, 11338-11344.	3.6	41

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109	Surface Functionalization of Multiwalled Carbon Nanotube with Trifluorophenyl. Journal of Nanomaterials, 2006, 2006, 1-5.	2.7	40
110	Effect of the ceramic particle size on the microstructure and dielectric properties of barium titanate/polystyrene composites. Journal of Applied Polymer Science, 2008, 110, 3473-3479.	2.6	40
111	Temperature-dependent electro-mechanical actuation sensitivity in stiffness-tunable BaTiO <sub>3</sub> /polydimethylsiloxane dielectric elastomer nanocomposites. Applied Physics Letters, 2015, 106, .	3.3	38
112	Polyurethane induced high breakdown strength and high energy storage density in polyurethane/poly(vinylidene fluoride) composite films. Applied Physics Letters, 2017, 110, .	3.3	38
113	All-Organic Dielectrics with High Breakdown Strength and Energy Storage Density for High-Power Capacitors. Macromolecular Rapid Communications, 2021, 42, e2100116.	3.9	38
114	Improved dielectric properties of PVDF nanocomposites with core-shell structured BaTiO <sub>3</sub> @polyurethane nanoparticles. IET Nanodielectrics, 2020, 3, 94-98.	4.1	38
115	High-dielectric-permittivity high-elasticity three-component nanocomposites with low percolation threshold and low dielectric loss. Applied Physics Letters, 2009, 94, .	3.3	37
116	Improved dielectric properties and thermal conductivity of PVDF composites filled with core-shell structured Cu@CuO particles. Journal of Materials Science: Materials in Electronics, 2019, 30, 18350-18361.	2.2	37
117	Surface engineering of 2D dielectric polymer films for scalable production of High-Energy-Density films. Progress in Materials Science, 2022, 128, 100968.	32.8	37
118	Preparation and characterization of surface modified silicon carbide/polystyrene nanocomposites. Journal of Applied Polymer Science, 2013, 130, 638-644.	2.6	36
119	Interfacial engineering of polypropylene/graphene nanocomposites: improvement of graphene dispersion by using tryptophan as a stabilizer. RSC Advances, 2014, 4, 8799.	3.6	36
120	Significantly improved high-temperature charge-discharge efficiency of all-organic polyimide composites by suppressing space charges. Nano Energy, 2022, 99, 107410.	16.0	36
121	Exploration of dielectric constant dependence on evolution of microstructure in nanotube/ferroelectric polymer nanocomposites. Applied Physics Letters, 2008, 92, 082902.	3.3	35
122	Synergetic Enhancement of Permittivity and Breakdown Strength in All-Polymeric Dielectrics toward Flexible Energy Storage Devices. Advanced Materials Interfaces, 2016, 3, 1600016.	3.7	35
123	Enhancement of high-temperature dielectric energy storage performances of polyimide nanocomposites utilizing surface functionalized MAX nanosheets. Composites Science and Technology, 2022, 218, 109193.	7.8	35
124	Review of dielectric elastomers for actuators, generators and sensors. IET Nanodielectrics, 2020, 3, 99-106.	4.1	34
125	Preparation and wide-frequency dielectric properties of (Ba <sub>0.5</sub> Sr <sub>0.4</sub> Ca <sub>0.1</sub> )TiO <sub>3</sub> /poly(vinylidene fluoride) composites. Journal of Applied Physics, 2014, 116, .	2.5	33
126	Influence of carbon nanotube dimensions on the percolation characteristics of carbon nanotube/polymer composites. Journal of Applied Physics, 2014, 116, .	2.5	32



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127	Mussel-inspired polydopamine functionalized silicon carbide whisker for PVDF composites with enhanced dielectric performance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 148, 106486.	7.6	32
128	Origin of remarkable positive temperature coefficient effect in the modified carbon black and carbon fiber cofilled polymer composites. <i>Journal of Applied Physics</i> , 2009, 106, 024913.	2.5	31
129	A hybrid Mg-Al layered double hydroxide/graphene nanostructure obtained via hydrothermal synthesis. <i>Chemical Physics Letters</i> , 2014, 605-606, 77-80.	2.6	31
130	Electrical properties of polypropylene/styrene-ethylene-butylene-styrene block copolymer/MgO nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017, 24, 1457-1464.	2.9	31
131	Exploration of unusual electrical properties in carbon black/binary-polymer nanocomposites. <i>Applied Physics Letters</i> , 2007, 90, 152912.	3.3	30
132	Coulomb block effect inducing distinctive dielectric properties in electroless plated barium titanate@silver/poly(vinylidene fluoride) nanocomposites. <i>RSC Advances</i> , 2015, 5, 65167-65174.	3.6	30
133	Constructing advanced dielectric elastomer based on copolymer of acrylate and polyurethane with large actuation strain at low electric field. <i>Polymer</i> , 2018, 149, 39-44.	3.8	30
134	Ultrahigh charge/discharge efficiency and high energy density of a high-temperature stable sandwich-structured polymer. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1579-1587.	10.3	30
135	Flexible Dielectric Nanocomposites with Ultrawide Zero-Temperature Coefficient Windows for Electrical Energy Storage and Conversion under Extreme Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7591-7600.	8.0	29
136	Largely enhanced dielectric constant of PVDF nanocomposites through a core-shell strategy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2777-2786.	2.8	29
137	Towards suppressing dielectric loss of GO/PVDF nanocomposites with TA-Fe coordination complexes as an interface layer. <i>Journal of Materials Science and Technology</i> , 2018, 34, 2415-2423.	10.7	29
138	The effect of aspect ratio on the piezoresistive behavior of the multiwalled carbon nanotubes/thermoplastic elastomer nanocomposites. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	28
139	Core-shell structured Al/PVDF nanocomposites with high dielectric permittivity but low loss and enhanced thermal conductivity. <i>Polymer Engineering and Science</i> , 2019, 59, 103-111.	3.1	28
140	Origin of ultralow permittivity in polyimide/mesoporous silicate nanohybrid films with high resistivity and high breakdown strength. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	27
141	Improved stability of volume resistivity in carbon black/ethylene-vinyl acetate copolymer composites by employing multi-walled carbon nanotubes as second filler. <i>Polymer</i> , 2012, 53, 4871-4878.	3.8	27
142	Two percolation thresholds and remarkably high dielectric permittivity in pristine carbon nanotube/elastomer composites. <i>Applied Nanoscience (Switzerland)</i> , 2015, 5, 969-974.	3.1	27
143	Improved dielectric properties of polypropylene-based nanocomposites via co-filling with zinc oxide and barium titanate. <i>Composites Science and Technology</i> , 2017, 148, 20-26.	7.8	27
144	Fabrication of BaTiO <sub>3</sub> @super short MWCNTs core-shell particles reinforced PVDF composite films with improved dielectric properties and high thermal conductivity. <i>Composites Science and Technology</i> , 2020, 200, 108405.	7.8	26

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145	High energy density of polyimide films employing an imidization reaction kinetics strategy at elevated temperature. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10950-10959.	10.3	26
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