Zhi-Min Dang

List of Publications by Year
in descending order

326 papers	19,024 citations	10389 72 h-index	15732 125 g-index
333 all docs	333 docs citations	333 times ranked	11274 citing authors

#	Article	IF	Citations
1	Fundamentals, processes and applications of high-permittivity polymerâ€“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 Nanomaterialâ€Polymer Dielectric Composites with High Permittivity for Power Energy Storage Applications. Small, 2016, 12, 1688-1701.	10.0	405
5	Improving Dielectric Properties of BaTiO₃/Ferroelectric Polymer Composites by Employing Surface Hydroxylated BaTiO₃ 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 BaTiO₃/Polyimide Nanocomposite Films with High Thermal Stability. Advanced Functional Materials, 2008, 18, 1509-1517.	14.9	294
9	Excellent energy storage performance and thermal property of polymer-based composite induced by multifunctional one-dimensional nanofibers oriented in-plane direction. Nano Energy, 2019, 56, 138-150.	16.0	289
10	Improved Dielectric Properties of Nanocomposites Based on Poly(vinylidene fluoride) and Poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.0	277
11	Recent Progress and Future Prospects on All-Organic Polymer Dielectrics for Energy Storage Capacitors. Chemical Reviews, 2022, 122, 3820-3878.	47.7	240
12	Influence of silane coupling agent on morphology and dielectric property in BaTiO3/polyvinylidene fluoride composites. Applied Physics Letters, 2006, 89, 112902.	3.3	224
13	Dielectric properties of reduced graphene oxide/polypropylene composites with ultralow percolation threshold. Polymer, 2013, 54, 1916-1922.	3.8	204
14	Flexible and Stretchable Capacitive Sensors with Different Microstructures. Advanced Materials, 2021, 33, e2008267.	21.0	196
15	Improved dielectric, tensile and energy storage properties of surface rubberized BaTiO3/polypropylene nanocomposites. Nano Energy, 2018, 48, 144-151.	16.0	190
16	Fabrication and dielectric properties of advanced high permittivity polyaniline/poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 2441.	6.7	188
17	Significantly enhanced low-frequency dielectric permittivity in the BaTiO3/poly(vinylidene fluoride) nanocomposite. Applied Physics Letters, 2007, 90, 012901.	3.3	180
18	Study on microstructure and dielectric property of the BaTiO3/epoxy resin composites. Composites Science and Technology, 2008, 68, 171-177.	7.8	180

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19	Dielectric behavior of a metal-polymer composite with low percolation threshold. Applied Physics Letters, 2006, 89, 072902.	3.3	179
20	Functionalized grapheneâ€“BaTiO3/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
21	Morphology and Dielectric Property of Homogenous BaTiO3/PVDF Nanocomposites Prepared via the Natural Adsorption Action of Nanosized BaTiO3. Macromolecular Rapid Communications, 2005, 26, 1185-1189.	3.9	170
22	Tailored Dielectric Properties based on Microstructure Change in BaTiO₃-Carbon Nanotube/Polyvinylidene Fluoride Three-Phase Nanocomposites. Journal of Physical Chemistry C, 2010, 114, 13204-13209.	3.1	168
23	High-temperature polyimide dielectric materials for energy storage: theory, design, preparation and properties. Energy and Environmental Science, 2022, 15, 56-81.	30.8	166
24	Improved Thermal Conductivity and Flame Retardancy in Polystyrene/Poly(vinylidene fluoride) Blends by Controlling Selective Localization and Surface Modification of SiC Nanoparticles. ACS Applied Materials & Interfaces, 2013, 5, 6915-6924.	8.0	153
25	Thermal, electrical and mechanical properties of plasticized polymer electrolytes based on PEO/P(VDF-HFP) blends. Electrochimica Acta, 2002, 48, 205-209.	5.2	138
26	Dependence of dielectric behavior on the physical property of fillers in the polymer-matrix composites. Synthetic Metals, 2004, 146, 79-84.	3.9	138
27	Triple Shape Memory Effects of Cross-Linked Polyethylene/Polypropylene Blends with Cocontinuous Architecture. ACS Applied Materials & Interfaces, 2013, 5, 5550-5556.	8.0	136
28	Electrochemical performance of all-solid-state lithium batteries using inorganic lithium garnets particulate reinforced PEO/LiClO4 electrolyte. Electrochimica Acta, 2017, 253, 430-438.	5.2	133
29	Decoupling of inter-particle polarization and intra-particle polarization in core-shell structured nanocomposites towards improved dielectric performance. Energy Storage Materials, 2021, 42, 1-11.	18.0	133
30	Polymer-based dielectrics with high permittivity for electric energy storage: A review. Nano Energy, 2021, 89, 106438.	16.0	130
31	Dielectric behavior and dependence of percolation threshold on the conductivity of fillers in polymer-semiconductor composites. Applied Physics Letters, 2004, 85, 97-99.	3.3	128
32	Influence of aspect ratio of carbon nanotube on percolation threshold in ferroelectric polymer nanocomposite. Applied Physics Letters, 2007, 91, .	3.3	125
33	BaTiO 3 -carbon nanotube/polyvinylidene fluoride three-phase composites with high dielectric constant and low dielectric loss. Applied Physics Letters, 2008, 93, .	3.3	123
34	Dielectric properties of upright carbon fiber filled poly(vinylidene fluoride) composite with low percolation threshold and weak temperature dependence. Applied Physics Letters, 2007, 91, .	3.3	122
35	Supersensitive linear piezoresistive property in carbon nanotubesâˆ•silicone rubber nanocomposites. Journal of Applied Physics, 2008, 104, .	2.5	117
36	High thermal conductivity and high electrical resistivity of poly(vinylidene fluoride)/polystyrene blends by controlling the localization of hybrid fillers. Composites Science and Technology, 2013, 89, 142-148.	7.8	115

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37	Photo, pH, and thermo triple-responsive spiropyran-based copolymer nanoparticles for controlled release. Chemical Communications, 2015, 51, 12633-12636.	4.1	115
38	High energy density and discharge efficiency polypropylene nanocomposites for potential high-power capacitor. Energy Storage Materials, 2020, 27, 443-452.	18.0	113
39	Enhanced thermal conductivity and mechanical property through boron nitride hot string in polyvinylidene fluoride fibers by electrospinning. Composites Science and Technology, 2018, 156, 1-7.	7.8	109
40	Giant dielectric constant and resistance-pressure sensitivity in carbon nanotubes/rubber nanocomposites with low percolation threshold. Applied Physics Letters, 2007, 90, 042914.	3.3	108
41	High thermal conductivity and excellent electrical insulation performance in double-percolated three-phase polymer nanocomposites. Composites Science and Technology, 2017, 144, 36-42.	7.8	107
42	Surface-Functionalized MWNTs with Emeraldine Base: Preparation and Improving Dielectric Properties of Polymer Nanocomposites. ACS Applied Materials & Interfaces, 2011, 3, 4557-4560.	8.0	106
43	Positive piezoresistive behavior of electrically conductive alkyl-functionalized graphene/polydimethylsilicone nanocomposites. Journal of Materials Chemistry C, 2013, 1, 515-521.	5.5	106
44	Size-dependent low-frequency dielectric properties in the BaTiO3/poly(vinylidene fluoride) nanocomposite films. Applied Physics Letters, 2012, 100, .	3.3	104
45	Past and future on nanodielectrics. IET Nanodielectrics, 2018, 1, 41-47.	4.1	103
46	Increased electroaction through a molecular flexibility tuning process in TiO2â€“polydimethylsilicone nanocomposites. Journal of Materials Chemistry A, 2013, 1, 3140.	10.3	100
47	Polymer composites filled with core@double-shell structured fillers: Effects of multiple shells on dielectric and thermal properties. Composites Science and Technology, 2019, 181, 107686.	7.8	99
48	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. Carbon, 2013, 54, 105-112.	10.3	98
49	Photo, pH and redox multi-responsive nanogels for drug delivery and fluorescence cell imaging. Polymer Chemistry, 2017, 8, 6150-6157.	3.9	96
50	High dielectric permittivity silver/polyimide composite films with excellent thermal stability. Applied Physics Letters, 2008, 92, .	3.3	93
51	Electrical property and microstructure analysis of poly(vinylidene fluoride)-based composites with different conducting fillers. Chemical Physics Letters, 2007, 438, 196-202.	2.6	92
52	Preparation and dielectric properties of surface modified TiO2/silicone rubber nanocomposites. Materials Letters, 2011, 65, 3430-3432.	2.6	92
53	Broad-frequency dielectric behaviors in multiwalled carbon nanotube/rubber nanocomposites. Journal of Applied Physics, 2009, 106, .	2.5	89
54	Effect of the selective localization of carbon nanotubes in polystyrene/poly(vinylidene fluoride) blends on their dielectric, thermal, and mechanical properties. Materials & Design, 2014, 56, 807-815.	5.1	89

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55	Improvement of space charge suppression of polypropylene for potential application in HVDC cables. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2337-2343.	2.9	89
56	Dielectric and dynamic mechanical properties of polyimideâ€“clay nanocomposite films. Chemical Physics Letters, 2005, 401, 553-557.	2.6	86
57	Effects of surface modification of carbon nanotubes on the microstructure and electrical properties of carbon nanotubes/rubber nanocomposites. Chemical Physics Letters, 2008, 457, 352-356.	2.6	85
58	Enhanced dielectric properties and positive temperature coefficient effect in the binary polymer composites with surface modified carbon black. Journal of Materials Chemistry, 2008, 18, 229-234.	6.7	85
59	Preparation and dielectric properties of coreâ€“shell structured Ag@polydopamine/poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock	7.8	85
60	Nanocomposites of Spiropyran-Functionalized Polymers and Upconversion Nanoparticles for Controlled Release Stimulated by Near-Infrared Light and pH. Macromolecules, 2016, 49, 7490-7496.	4.8	85
61	High-performance strain sensors based on functionalized graphene nanoplates for damage monitoring. Composites Science and Technology, 2016, 123, 32-38.	7.8	84
62	Complementary percolation characteristics of carbon fillers based electrically percolative thermoplastic elastomer composites. Composites Science and Technology, 2011, 72, 28-35.	7.8	83
63	Preparation of nanoâ€zinc oxide/EPDM composites with both good thermal conductivity and mechanical properties. Journal of Applied Polymer Science, 2011, 119, 1144-1155.	2.6	82
64	Highly improved electro-actuation of dielectric elastomers by molecular grafting of azobenzenes to silicon rubber. Journal of Materials Chemistry C, 2015, 3, 4883-4889.	5.5	82
65	Soft, tough, and fast polyacrylate dielectric elastomer for non-magnetic motor. Nature Communications, 2021, 12, 4517.	12.8	82
66	Temperature dependence of electric and dielectric behaviors of Ni/polyvinylidene fluoride composites. Journal of Applied Physics, 2010, 107, .	2.5	80
67	Effect of nanosized ZnO on the electrical properties of (PEO)16LiClO4 electrolytes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 99, 340-343.	3.5	78
68	Low dielectric permittivity and high thermal conductivity silicone rubber composites with micro-nano-sized particles. Applied Physics Letters, 2012, 101, 062905.	3.3	78
69	Tuning of thermal and dielectric properties for epoxy composites filled with electrospun alumina fibers and graphene nanoplatelets through hybridization. Journal of Materials Chemistry C, 2015, 3, 7195-7202.	5.5	78
70	Dielectric properties and effect of electrical aging on space charge accumulation in polyimide/TiO2 nanocomposite films. Journal of Applied Physics, 2010, 108, 094113.	2.5	77
71	High performance hybrid carbon fillers/binaryâ€“polymer nanocomposites with remarkably enhanced positive temperature coefficient effect of resistance. Journal of Materials Chemistry A, 2013, 1, 843-851.	10.3	76
72	Enhanced mechanical and dielectric properties of an epoxy resin modified with hydroxyl-terminated polybutadiene. Composites Part A: Applied Science and Manufacturing, 2018, 114, 97-106.	7.6	76

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73	Effect of BaTiO3 size on dielectric property of BaTiO3/PVDF composites. Journal of Electroceramics, 2008, 21, 381-384.	2.0	75
74	Improved Self-Healing of Polyethylene/Carbon Black Nanocomposites by Their Shape Memory Effect. Journal of Physical Chemistry B, 2013, 117, 1467-1474.	2.6	75
75	Dielectric properties and morphologies of composites filled with whisker and nanosized zinc oxide. Materials Research Bulletin, 2003, 38, 499-507.	5.2	74
76	Effect of tensile strain on morphology and dielectric property in nanotube/polymer nanocomposites. Applied Physics Letters, 2007, 90, 012907.	3.3	74
77	Dielectric Elastomer Generator with Improved Energy Density and Conversion Efficiency Based on Polyurethane Composites. ACS Applied Materials & Interfaces, 2017, 9, 5237-5243.	8.0	74
78	Effect of micro-Si₃N₄-nano-Al₂O₃ co-filled particles on thermal conductivity, dielectric and mechanical properties of silicone rubber composites. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 1989-1996.	2.9	73
79	Bio-inspired durable, superhydrophobic magnetic particles for oil/water separation. Journal of Colloid and Interface Science, 2016, 463, 266-271.	9.4	73
80	Mechanical and dielectric properties of graphene incorporated polypropylene nanocomposites using polypropylene-graft-maleic anhydride as a compatibilizer. Composites Science and Technology, 2017, 153, 111-118.	7.8	73
81	Stretch-Modulated Carbon Nanotube Alignment in Ferroelectric Polymer Composites: Characterization of the Orientation State and Its Influence on the Dielectric Properties. Journal of Physical Chemistry C, 2011, 115, 20011-20017.	3.1	72
82	Enhanced electrical conductivity in chemically modified carbon nanotube/methylvinyl silicone rubber nanocomposite. European Polymer Journal, 2007, 43, 4924-4930.	5.4	71
83	Experimental study and theoretical prediction of dielectric permittivity in BaTiO3/polyimide nanocomposite films. Applied Physics Letters, 2012, 100, .	3.3	71
84	Dielectric properties of carbon fiber filled low-density polyethylene. Journal of Applied Physics, 2003, 93, 5543-5545.	2.5	67
85	Structural, optical and magnetic properties of Co-doped ZnO nanorods prepared by hydrothermal method. Journal of Alloys and Compounds, 2013, 576, 59-65.	5.5	67
86	All-organic dielectric polymer films exhibiting superior electric breakdown strength and discharged energy density by adjusting the electrodeâ€“dielectric interface with an organic nano-interlayer. Energy and Environmental Science, 2021, 14, 5513-5522.	30.8	67
87	Novel high-dielectric-permittivity poly(vinylidene fluoride)/polypropylene blend composites: The influence of the poly(vinylidene fluoride) concentration and compatibilizer. Journal of Applied Polymer Science, 2007, 105, 3649-3655.	2.6	66
88	Enhanced energy conversion efficiency in the surface modified BaTiO3 nanoparticles/polyurethane nanocomposites for potential dielectric elastomer generators. Nano Energy, 2019, 59, 363-371.	16.0	65
89	Significant temperature and pressure sensitivities of electrical properties in chemically modified multiwall carbon nanotube/methylvinyl silicone rubber nanocomposites. Applied Physics Letters, 2006, 89, 182902.	3.3	64
90	Preparation and dielectric behaviors of thermoplastic and thermosetting polymer nanocomposite films containing BaTiO3 nanoparticles with different diameters. Composites Science and Technology, 2013, 80, 66-72.	7.8	64

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91	Mechanism analysis of improved corona-resistant characteristic in polyimide/TiO2 nanohybrid films. Applied Physics Letters, 2008, 93, .	3.3	63
92	Tuning the Dielectric Properties of Polystyrene/Poly(vinylidene fluoride) Blends by Selectively Localizing Carbon Black Nanoparticles. Journal of Physical Chemistry B, 2013, 117, 2505-2515.	2.6	62
93	Dually Actuated Triple Shape Memory Polymers of Cross-Linked Polycyclooctene–Carbon Nanotube/Polyethylene Nanocomposites. ACS Applied Materials & Interfaces, 2014, 6, 20051-20059.	8.0	61
94	Vertical Crystal Plane Matching between AgZn₃ (002) and Zn (002) Achieving a Dendrite–Free Zinc Anode. Small, 2022, 18, e2200131.	10.0	60
95	Theoretical prediction and experimental study of dielectric properties in poly(vinylidene fluoride) matrix composites with micronanosize BaTiO3 filler. Applied Physics Letters, 2007, 91, .	3.3	57
96	Remarkable selective localization of modified nanoscaled carbon black and positive temperature coefficient effect in binary-polymer matrix composites. Journal of Materials Chemistry, 2008, 18, 2685.	6.7	56
97	Effect of shell–layer thickness on dielectric properties in Ag@TiO₂ core@shell nanoparticles filled ferroelectric poly(vinylidene fluoride) composites. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 739-742.	1.8	56
98	Dielectric properties of poly(vinylidene fluoride) nanocomposites filled with surface coated BaTiO3 by SnO2 nanodots. Applied Physics Letters, 2014, 104, .	3.3	56
99	A remarkable suppression on space charge in isotatic polypropylene by inducing the Î²-crystal formation. Applied Physics Letters, 2015, 107, .	3.3	55
100	Preparation, microstructure and properties of polyethylene/alumina nanocomposites for HVDC insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 3350-3356.	2.9	55
101	Advanced dielectric properties of BaTiO₃/polyvinylidene-fluoride nanocomposites with sandwich multi-layer structure. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1312-1317.	2.9	54
102	Effect of modified montmorillonites on the ionic conductivity of (PEO)16LiClO4 electrolytes. Electrochimica Acta, 2002, 47, 3541-3544.	5.2	53
103	Rescaled temperature dependence of dielectric behavior of ferroelectric polymer composites. Applied Physics Letters, 2005, 86, 172905.	3.3	52
104	Tailored high cycling performance in a solid polymer electrolyte with perovskite-type Li_{0.33}La_{0.557}TiO₃ nanofibers for all-solid-state lithium ion batteries. Dalton Transactions, 2019, 48, 3263-3269.	3.3	52
105	Enhanced dielectric properties and energy storage of the sandwich–structured poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 1 ₂ O ₃ nanofibres. IET Nanodielectrics, 2019, 2, 103-108.	4.1	52
106	Enhanced breakdown strength of poly(vinylidene fluoride) utilizing rubber nanoparticles for energy storage application. Applied Physics Letters, 2016, 109, .	3.3	51
107	Preparation and dielectric property of Ag–PVA nano-composite. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 99, 325-328.	3.5	50
108	Quantum-Chemical Predictions of pK_aâ€™s of Thiols in DMSO. Journal of Physical Chemistry A, 2014, 118, 606-622.	2.5	50

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109	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
110	Morphology and crystalline-phase-dependent electrical insulating properties in tailored polypropylene for HVDC cables. Applied Physics Letters, 2016, 109, .	3.3	50
111	Preparation of nanoalumina/EPDM composites with good performance in thermal conductivity and mechanical properties. Polymers for Advanced Technologies, 2011, 22, 2302-2310.	3.2	49
112	In situ damage sensing in the glass fabric reinforced epoxy composites containing CNTâ€“Al2O3 hybrids. Composites Science and Technology, 2014, 99, 8-14.	7.8	48
113	Dielectric Properties of Polyimide-Mica Hybrid Films. Macromolecular Rapid Communications, 2005, 26, 1473-1477.	3.9	47
114	Electrical properties of TiO2-filled polyimide nanocomposite films prepared via an in situ polymerization process. Synthetic Metals, 2010, 160, 2670-2674.	3.9	47
115	Effect of aspect ratio of multiwall carbon nanotubes on resistance-pressure sensitivity of rubber nanocomposites. Applied Physics Letters, 2007, 91, .	3.3	46
116	Enhancement of breakdown strength of multilayer polymer film through electric field redistribution and defect modification. Applied Physics Letters, 2019, 114, 103702.	3.3	46
117	Selfâ€Healing of Electrical Damage in Polymers. Advanced Science, 2020, 7, 2002131.	11.2	46
118	Concurrently enhanced dielectric properties and thermal conductivity in PVDF composites with core-shell structured Î²-SiCw@SiO2 whiskers. Composites Part A: Applied Science and Manufacturing, 2020, 137, 106021.	7.6	45
119	Thermally stable polyimide nanocomposite films from electrospun BaTiO₃ fibers for high-density energy storage capacitors. RSC Advances, 2015, 5, 44749-44755.	3.6	44
120	Distinctive electrical properties in sandwich-structured Al2O3/low density polyethylene nanocomposites. Applied Physics Letters, 2016, 108, .	3.3	44
121	Enhanced breakdown strength and energy density in PVDF nanocomposites with functionalized MgO nanoparticles. RSC Advances, 2016, 6, 33599-33605.	3.6	44
122	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
123	Tailored Ultralow Dielectric Permittivity in High-Performance Fluorinated Polyimide Films by Adjusting Nanoporous Characterisitics. Journal of Physical Chemistry C, 2012, 116, 23676-23681.	3.1	42
124	Dielectric properties of LTNO ceramics and LTNO/PVDF composites. Ceramics International, 2005, 31, 349-351.	4.8	41
125	The influence of TiO2 nanoparticle incorporation on surface potential decay of corona-resistant polyimide nanocomposite films. Journal of Electrostatics, 2011, 69, 255-260.	1.9	41
126	Composition dependence of dielectric properties, elastic modulus, and electroactivity in (carbon) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 127, 4440-4445.	2.6	41

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127	In situ thermal reduction of graphene oxide in a styrene-ethylene/butylene-styrene triblock copolymer via melt blending. Polymer International, 2014, 63, 93-99.	3.1	41
128	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
129	Surface Functionalization of Multiwalled Carbon Nanotube with Trifluorophenyl. Journal of Nanomaterials, 2006, 2006, 1-5.	2.7	40
130	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
131	Temperature-dependent electro-mechanical actuation sensitivity in stiffness-tunable BaTiO3/polydimethylsiloxane dielectric elastomer nanocomposites. Applied Physics Letters, 2015, 106, .	3.3	38
132	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
133	Allâ€Organic Dielectrics with High Breakdown Strength and Energy Storage Density for Highâ€Power Capacitors. Macromolecular Rapid Communications, 2021, 42, e2100116.	3.9	38
134	Improved dielectric properties of PVDF nanocomposites with coreâ€“shell structured BaTiO ₃ @polyurethane nanoparticles. IET Nanodielectrics, 2020, 3, 94-98.	4.1	38
135	High-dielectric-permittivity high-elasticity three-component nanocomposites with low percolation threshold and low dielectric loss. Applied Physics Letters, 2009, 94, .	3.3	37
136	Improved dielectric properties and thermal conductivity of PVDF composites filled with coreâ€“shell structured Cu@CuO particles. Journal of Materials Science: Materials in Electronics, 2019, 30, 18350-18361.	2.2	37
137	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
138	Preparation and characterization of surface modified silicon carbide/polystyrene nanocomposites. Journal of Applied Polymer Science, 2013, 130, 638-644.	2.6	36
139	Interfacial engineering of polypropylene/graphene nanocomposites: improvement of graphene dispersion by using tryptophan as a stabilizer. RSC Advances, 2014, 4, 8799.	3.6	36
140	Significantly improved high-temperature charge-discharge efficiency of all-organic polyimide composites by suppressing space charges. Nano Energy, 2022, 99, 107410.	16.0	36
141	Exploration of dielectric constant dependence on evolution of microstructure in nanotube/ferroelectric polymer nanocomposites. Applied Physics Letters, 2008, 92, 082902.	3.3	35
142	Synergetic Enhancement of Permittivity and Breakdown Strength in Allâ€Polymeric Dielectrics toward Flexible Energy Storage Devices. Advanced Materials Interfaces, 2016, 3, 1600016.	3.7	35
143	Insight into the dielectric response of transformer oil-based nanofluids. AIP Advances, 2017, 7, .	1.3	35
144	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

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145	Preparation and wide-frequency dielectric properties of (Ba0.5Sr0.4Ca0.1)TiO3/poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock	2.5	33
146	Influence of carbon nanotube dimensions on the percolation characteristics of carbon nanotube/polymer composites. Journal of Applied Physics, 2014, 116, .	2.5	32
147	Origin of remarkable positive temperature coefficient effect in the modified carbon black and carbon fiber cofillled polymer composites. Journal of Applied Physics, 2009, 106, 024913.	2.5	31
148	A hybrid Mgâ€“Al layered double hydroxide/graphene nanostructure obtained via hydrothermal synthesis. Chemical Physics Letters, 2014, 605-606, 77-80.	2.6	31
149	Electrical properties of polypropylene/styrene-ethylene-butylene-styrene block copolymer/MgO nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1457-1464.	2.9	31
150	Exploration of unusual electrical properties in carbon black/binary-polymer nanocomposites. Applied Physics Letters, 2007, 90, 152912.	3.3	30
151	Coulomb block effect inducing distinctive dielectric properties in electroless plated barium titanate@silver/poly(vinylidene fluoride) nanocomposites. RSC Advances, 2015, 5, 65167-65174.	3.6	30
152	Constructing advanced dielectric elastomer based on copolymer of acrylate and polyurethane with large actuation strain at low electric field. Polymer, 2018, 149, 39-44.	3.8	30
153	Ultrahigh chargeâ€“discharge efficiency and high energy density of a high-temperature stable sandwich-structured polymer. Journal of Materials Chemistry A, 2022, 10, 1579-1587.	10.3	30
154	Studies on mechanoluminescence from SrAl2O4:Eu, Dy phosphor. Materials Chemistry and Physics, 2003, 80, 20-22.	4.0	29
155	Mechanistic Study on Rhâ€Catalyzed Stereoselective Cï£¿C/Cï£¿H Activation of tertâ€Cyclobutanols. Chemistry - A European Journal, 2014, 20, 3839-3848.	3.3	29
156	Flexible Dielectric Nanocomposites with Ultrawide Zero-Temperature Coefficient Windows for Electrical Energy Storage and Conversion under Extreme Conditions. ACS Applied Materials & Interfaces, 2017, 9, 7591-7600.	8.0	29
157	Largely enhanced dielectric constant of PVDF nanocomposites through a coreâ€“shell strategy. Physical Chemistry Chemical Physics, 2018, 20, 2777-2786.	2.8	29
158	Towards suppressing dielectric loss of GO/PVDF nanocomposites with TA-Fe coordination complexes as an interface layer. Journal of Materials Science and Technology, 2018, 34, 2415-2423.	10.7	29
159	High dielectric performance of three-component nanocomposites induced by a synergetic effect. Materials Letters, 2010, 64, 2682-2684.	2.6	28
160	Mechanistic Study of the Rhodiumâ€Catalyzed [3+2+2] Carbocyclization of Alkenylidenecyclopropanes with Alkynes. Chemistry - an Asian Journal, 2013, 8, 2262-2273.	3.3	28
161	The effect of aspect ratio on the piezoresistive behavior of the multiwalled carbon nanotubes/thermoplastic elastomer nanocomposites. Journal of Applied Physics, 2013, 113, .	2.5	28
162	Coreâ€shell structured Al/PVDF nanocomposites with high dielectric permittivity but low loss and enhanced thermal conductivity. Polymer Engineering and Science, 2019, 59, 103-111.	3.1	28

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164	Improved stability of volume resistivity in carbon black/ethylene-vinyl acetate copolymer composites by employing multi-walled carbon nanotubes as second filler. Polymer, 2012, 53, 4871-4878.	3.8	27
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