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	Recyclability and Selfâ€Healing of Dynamic Crossâ€Linked Polyimide with Mechanical/Electrical Damage. Energy and Environmental Materials, 2023, 6, .	12.8	26
2	Advanced dielectric elastomer based on optimized thermoplastic polyurethaneâ€“styrene ethylene butylene styrene blend: Experiment and simulation. Journal of Applied Polymer Science, 2022, 139, 51595.	2.6	9
3	Review of machine learningâ€driven design of polymerâ€based dielectrics. IET Nanodielectrics, 2022, 5, 24-38.	4.1	18
4	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
5	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
6	High dielectric properties and thermal conductivity of the PVDF-based composites with a low filler content reinforced by BaTiO3@super-short MWCNT coreâ€“shell particles. Journal of Materials Science: Materials in Electronics, 2022, 33, 4268.	2.2	3
7	High-temperature polyimide dielectric materials for energy storage: theory, design, preparation and properties. Energy and Environmental Science, 2022, 15, 56-81.	30.8	166
8	Particle packing theory guided multiscale alumina filled epoxy resin with excellent thermal and dielectric performances. Journal of Materiomics, 2022, 8, 1058-1066.	5.7	13
9	Fabrication and actuation characterisation of a new UV curing acrylic dielectric elastomer. IET Nanodielectrics, 2022, 5, 104-111.	4.1	7
10	Vertical Crystal Plane Matching between AgZn₃ (002) and Zn (002) Achieving a Dendriteâ€Free Zinc Anode. Small, 2022, 18, e2200131.	10.0	60
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	High energy density of polyimide films employing an imidization reaction kinetics strategy at elevated temperature. Journal of Materials Chemistry A, 2022, 10, 10950-10959.	10.3	26
13	Achieving high insulating strength and energy storage properties of all-organic dielectric composites by surface morphology modification. Composites Science and Technology, 2022, 226, 109545.	7.8	13
14	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
15	Significantly improved high-temperature charge-discharge efficiency of all-organic polyimide composites by suppressing space charges. Nano Energy, 2022, 99, 107410.	16.0	36
16	Achieving Hydrophobic Ultralow Dielectric Constant Polyimide Composites: Combined Efforts of Fluorination and Porous Fillers. Macromolecular Materials and Engineering, 2022, 307, .	3.6	5
17	A novel strategy of fabricated flexible ITO electrode by liquid metal ultra-thin oxide film. Journal of Materiomics, 2022, 8, 1205-1212.	5.7	4
18	High strength, stable and self-healing copolyimide for defects induced by mechanical and electrical damages. Journal of Materials Chemistry C, 2022, 10, 11307-11315.	5.5	16

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19	Prediction of high-temperature polymer dielectrics using a Bayesian molecular design model. Journal of Applied Physics, 2022, 132, .	2.5	5
20	Toward enhancing dielectric properties and thermal conductivity of f-Cu/PVDF with PS as an interlayer. Polymer-Plastics Technology and Materials, 2021, 60, 680-693.	1.3	5
21	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
22	Synergy improvement of dielectric properties and thermal conductivity in PVDF composites with coreâ€shell structured Ni@SiO2. Journal of Materials Science: Materials in Electronics, 2021, 32, 4076-4089.	2.2	16
23	Homogenous lithium plating/stripping regulation by a mass-producible Zn particles modified Li-metal composite anode. Nano Research, 2021, 14, 3999-4005.	10.4	24
24	Regulating dielectric performances of Poly(vinylidene fluoride) nanocomposites by individually controlling shell thickness of Core@Doubleâ€Shells structured nanowires. IET Nanodielectrics, 2021, 4, 11-20.	4.1	5
25	Low-k cross-linked polyimide for microelectronic packaging application. , 2021, , .		1
26	Concurrently improving dielectric properties and thermal conductivity of Ni/PVDF composites by constructing NiO shell as an interlayer. Journal of Materials Science: Materials in Electronics, 2021, 32, 14764-14779.	2.2	6
27	Allâ€Organic Dielectrics with High Breakdown Strength and Energy Storage Density for Highâ€Power Capacitors. Macromolecular Rapid Communications, 2021, 42, e2100116.	3.9	38
28	Tuning Flexibilityâ€“Rigidity Conversion of Liquid Metal/Polyurethane Composites by Phase Transition for Potential Shape Memory Application. Advanced Engineering Materials, 2021, 23, 2100372.	3.5	13
29	A facile route to prepare highâ^'performance dielectric nanocomposites of poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 3 209, 108792.	7.8	8
30	Structural, electrical, and thermal features of polyimide composites filled with semiconductive MXene sheets. Applied Physics Letters, 2021, 118, .	3.3	10
31	Tunable dielectric performance of porphyrin based metalâ^'organic frameworks with polar molecule confinement. Composites Communications, 2021, 25, 100734.	6.3	7
32	Flexible and Stretchable Capacitive Sensors with Different Microstructures. Advanced Materials, 2021, 33, e2008267.	21.0	196
33	Soft, tough, and fast polyacrylate dielectric elastomer for non-magnetic motor. Nature Communications, 2021, 12, 4517.	12.8	82
34	Nanoâ€materials for engineering application. IET Nanodielectrics, 2021, 4, 81-83.	4.1	1
35	Polymer-based dielectrics with high permittivity for electric energy storage: A review. Nano Energy, 2021, 89, 106438.	16.0	130
36	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

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37	Preparation and Characterization of All-organic TPU/P(VDF-HFP) Flexible Composite Films with High Energy Storage. Acta Chimica Sinica, 2021, 79, 1273.	1.4	2
38	Relaxation dynamics of Ni/epoxy composites studied by dielectric relaxation spectroscopy. Journal of Elastomers and Plastics, 2020, 52, 304-321.	1.5	3
39	Enhanced dielectric properties of PVDF nanocomposites with modified sandwich-like GO@PVP hybrids. Polymer-Plastics Technology and Materials, 2020, 59, 592-605.	1.3	4
40	Effect of trap level density on breakdown strength and space charge distribution of polypropylene/lowâ€density polyethylene composites. Polymer Composites, 2020, 41, 780-787.	4.6	18
41	High energy density and discharge efficiency polypropylene nanocomposites for potential high-power capacitor. Energy Storage Materials, 2020, 27, 443-452.	18.0	113
42	Enhancing the dielectric properties of polymethyl methacrylate by using low loading graphene encapsulated styrene-butyl acrylate copolymer microspheres. Synthetic Metals, 2020, 259, 116229.	3.9	9
43	Selfâ€Healing of Electrical Damage in Polymers. Advanced Science, 2020, 7, 2002131.	11.2	46
44	Numerical Study of Negative Corona Discharge Characteristics at Different Electrode Gap Spacing. IEEE Transactions on Plasma Science, 2020, 48, 2831-2836.	1.3	12
45	Enhanced thermal conductivity and dielectric properties in electrostatic self-assembly 3D pBN@nCNTs fillers loaded in epoxy resin composites. Journal of Materiomics, 2020, 6, 751-759.	5.7	21
46	Dual functionalized Janus structural PVDF nanocomposite with surface-modified dielectric and magnetic nanoparticles. Applied Physics Letters, 2020, 117, .	3.3	9
47	Fabrication of BaTiO3@super short MWCNTs core-shell particles reinforced PVDF composite films with improved dielectric properties and high thermal conductivity. Composites Science and Technology, 2020, 200, 108405.	7.8	26
48	Effect of interparticle electrostatic interactions on the dielectric response of 0â€“3 connectivity particle/polymer composites for high energy density storage. Journal of Applied Physics, 2020, 127, 184106.	2.5	11
49	Simultaneously enhanced impact strength and dielectric properties of an epoxy resin modified with <scp>EHTPB</scp> liquid rubber. Polymer Engineering and Science, 2020, 60, 1984-1997.	3.1	8
50	Thermal, electrical, and mechanical properties of additionâ€type liquid silicone rubber coâ€filled with <scp>Al₂O₃</scp> particles and <scp>BN</scp> sheets. Journal of Applied Polymer Science, 2020, 137, 49399.	2.6	21
51	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
52	Improving dielectric strength of polyvinylidene fluoride by blending chains with different molecular weights. Polymer, 2020, 190, 122235.	3.8	11
53	Improved dielectric properties of PVDF nanocomposites with coreâ€“shell structured BaTiO ₃ @polyurethane nanoparticles. IET Nanodielectrics, 2020, 3, 94-98.	4.1	38
54	Flexible Nanodielectric Materials with High Permittivity for Power Energy Storage. , 2020, , 411-495.		1

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55	Effect of filler's parameters on dielectric performance of the co-filled sphere-fiber/polymer composites by numerical evaluation. , 2020, , .		0
56	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
57	Effect of multi-dimensional zinc oxide on electrical properties of polypropylene nanocomposites for HVDC cables. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 868-875.	2.9	4
58	Space charge suppression in environment-friendly PP nanocomposites by employing freeze-dried MgO with foam nanostructure for high-voltage power cable insulation. Applied Physics Letters, 2019, 114, 252902.	3.3	10
59	Space charge behavior in LDPE/EBA insulation materials for HVDC cables. , 2019, , .		0
60	Effect of multi-dimensional zinc oxide on electrical properties of polypropylene nanocomposites for HVDC cables. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 868-875.	2.9	9
61	Improved space charge suppression in PP/SEBS nanocomposites by controlling MgO nanoparticles with abundant surface defects. Applied Physics Letters, 2019, 115, .	3.3	14
62	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
63	Barium titanate@polyaniline coreâ€“shell semiconducting particles reinforced poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Materials Science: Materials in Electronics, 2019, 30, 3325-3331.	2.2	8
64	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
65	Wide Electrocaloric Temperature Range Induced by Ferroelectric to Antiferroelectric Phase Transition. Applied Sciences (Switzerland), 2019, 9, 1672.	2.5	10
66	Enhancement of breakdown strength of multilayer polymer film through electric field redistribution and defect modification. Applied Physics Letters, 2019, 114, 103702.	3.3	46
67	Surface modification of GO by PDA for dielectric material with well-suppressed dielectric loss. High Performance Polymers, 2019, 31, 1183-1194.	1.8	18
68	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
69	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
70	Effect of thickness of one-dimensional nanofibers by electrospinning on the dielectric properties of PVDF composites. , 2019, , .		1
71	Enhanced dielectric properties and energy storage of the sandwichâ€structured poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 1 ₂ O ₃ nanofibres. IET Nanodielectrics, 2019, 2, 103-108.	4.1	52
72	Strain-induced broadening temperature range of electrocaloric effects in ferroelectric superlattices. Journal of Alloys and Compounds, 2019, 777, 821-827.	5.5	12

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73	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
74	Photoinduced healing of polyolefin dielectrics enabled by surface plasmon resonance of gold nanoparticles. Journal of Applied Polymer Science, 2019, 136, 47158.	2.6	3
75	High improvement in trap level density and direct current breakdown strength of block polypropylene by doping with a Î²-nucleating agent. Applied Physics Letters, 2018, 112, .	3.3	19
76	Towards balanced mechanical and electrical properties of thermoplastic vulcanizates composites via unique synergistic effects of single-walled carbon nanotubes and graphene. Composites Science and Technology, 2018, 157, 134-143.	7.8	25
77	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
78	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
79	Largely enhanced dielectric constant of PVDF nanocomposites through a coreâ€“shell strategy. Physical Chemistry Chemical Physics, 2018, 20, 2777-2786.	2.8	29
80	Improved dielectric, tensile and energy storage properties of surface rubberized BaTiO3/polypropylene nanocomposites. Nano Energy, 2018, 48, 144-151.	16.0	190
81	Improved dispersion of carbon nanotubes in poly(vinylidene fluoride) composites by hybrids with coreâ€“shell structure. Journal of Applied Polymer Science, 2018, 135, 45693.	2.6	4
82	Micro Structural and Electrical properties of Liquid Silicone Rubber Used for External Insulation. , 2018, , .		1
83	Improvements of dielectric properties and energy storage performances in BaTiO₃/PVDF nanocomposites by employing a thermal treatment process. Journal of Advanced Dielectrics, 2018, 08, 1850043.	2.4	16
84	Dispersion of Carbon Blacks and Their Influence on the Properties of Semiconductive Materials use for High-voltage Power Cables. , 2018, , .		3
85	Effect of modified ZnO on electrical properties of PP/SEBS nanocomposites for HVDC cables. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2358-2365.	2.9	19
86	Prediction on effective permittivity of 0â€“3 connectivity particle/polymer composites at low concentration with finite element method. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2122-2128.	2.9	20
87	Preparation of New Acrylic-Based Dielectric Elastomers Based on Complexation of Ca²+ Ions with Carboxyl Groups Displaying Excellent Performance. , 2018, , .		0
88	The Thermal Conductivity and Electrical Properties of EP Composite With Different Size BN. , 2018, , .		1
89	Effect of fiber alignment on dielectric response in the 1â€“3 connectivity fiber/polymer composites by quantitative evaluation. Applied Physics Letters, 2018, 113, .	3.3	13
90	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

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91	Past and future on nanodielectrics. IET Nanodielectrics, 2018, 1, 41-47.	4.1	103
92	High Energy Storage Dielectric Polymer Materials With Hierarchical Microstructures. , 2018, , 165-197.		3
93	Processing of Polymeric Dielectrics for High Energy Density Capacitors. , 2018, , 429-446.		5
94	Environmentally friendly polypropylene/thermoplastic elastomer composites with modified graphene oxide for HVDC application. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1088-1094.	2.9	18
95	Effects of trap density on space charge suppression of block polypropylene/Al₂O₃ composite under high temperature. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1293-1299.	2.9	9
96	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
97	Nonlinear electrical conductivity of ionic liquid modified WS2/EPDM field grading material. Journal of Applied Physics, 2018, 123, 205113.	2.5	6
98	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
99	Electrospinning Functional Fillers/Polymer Composites With High Energy Storage. , 2018, , 289-321.		3
100	Multiphase/Multicomponent Dielectric Polymer Materials With High Permittivity and High Breakdown Strength. , 2018, , 247-287.		8
101	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
102	Functionalization of multi-walled carbon nanotubes by radiation-induced graft polymerization in aqueous solution. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 250-255.	2.1	4
103	Polypropylene/poly(methyl methacrylate)/graphene composites with high electrical resistivity anisotropy via sequential biaxial stretching. RSC Advances, 2017, 7, 6170-6178.	3.6	21
104	Mechanistic Investigation on Oxygen-Mediated Photoredox Dielsâ€“Alder Reactions with Chromium Catalysts. Organometallics, 2017, 36, 687-698.	2.3	10
105	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
106	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
107	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
108	Improved dielectric properties of polypropylene-based nanocomposites via co-filling with zinc oxide and barium titanate. Composites Science and Technology, 2017, 148, 20-26.	7.8	27

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109	Remarkably improved electromechanical actuation of polyurethane enabled by blending with silicone rubber. RSC Advances, 2017, 7, 22900-22908.	3.6	22
110	Improving electromechanical strain of polyurethanes via optimizing electric field ramp rate and actuator size. Sensors and Actuators A: Physical, 2017, 262, 29-34.	4.1	1
111	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
112	Mechanistic Investigation of Visible-Light-Induced Intermolecular [2 + 2] Photocycloaddition Catalyzed with Chiral Thioxanthone. Journal of Physical Chemistry A, 2017, 121, 4552-4559.	2.5	9
113	Insight into the dielectric response of transformer oil-based nanofluids. AIP Advances, 2017, 7, .	1.3	35
114	Plasticized thermoplastic polyurethanes for dielectric elastomers with improved electromechanical actuation. Journal of Applied Polymer Science, 2017, 134, 45123.	2.6	14
115	Co-continuous structural polystyrene/poly(vinylidene fluoride) nanocomposites with high dielectric constant and magnetic properties. Composites Communications, 2017, 4, 24-32.	6.3	15
116	Ductile polymer-based films with ultrahigh permittivity and low dielectric loss. Polymer, 2017, 130, 258-266.	3.8	10
117	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
118	Photo, pH and redox multi-responsive nanogels for drug delivery and fluorescence cell imaging. Polymer Chemistry, 2017, 8, 6150-6157.	3.9	96
119	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
120	Sandwich-structural PVDF nanocomposites with high thermal conductivity and excellent dielectric properties. , 2017, , .		0
121	Enhanced dielectric properties of polyvinylidene fluoride nanocomposites via calcium copper titanate nanofibers. , 2017, , .		0
122	Nonlinear electric conductivity and thermal conductivity of WS2/EPDM field grading materials. Journal of Applied Physics, 2017, 122, .	2.5	11
123	Effect of multi-structured zinc oxide on the electrical properties of polypropylene insulating materials. Journal Physics D: Applied Physics, 2017, 50, 305301.	2.8	12
124	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
125	Sandwiched structure effect on space charge characteristics of alumina/polyethylene nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1365-1371.	2.9	11
126	Effect of nano-fillers distribution on the nonlinear conductivity and space charge behavior in SiC/PDMS composites. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1735-1742.	2.9	23

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127	Effect of high-thermal conductivity epoxy resin on heat dissipation performance of saturated reactor. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3898-3905.	2.9	18
128	Enhanced dielectric properties and thermal conductivity of sandwich-structured PVDF composites by spin coating. , 2017, , .		0
129	Theoretical analysis and application of polymerâ€matrix field grading materials in HVDC cable terminals. High Voltage, 2017, 2, 39-46.	4.7	20
130	Electrospun poly(ethylene oxide) nanofibrous composites with enhanced ionic conductivity as flexible solid polymer electrolytes. High Voltage, 2017, 2, 25-31.	4.7	11
131	Research of nano WS<inf>2</inf> filled composite used as field grading material. , 2017, , .		0
132	Improved dielectric performance of polypropylene/multiwalled carbon nanotube nanocomposites by solidâ€phase orientation. Journal of Applied Polymer Science, 2016, 133, .	2.6	11
133	1D/2D Carbon Nanomaterialâ€Polymer Dielectric Composites with High Permittivity for Power Energy Storage Applications. Small, 2016, 12, 1688-1701.	10.0	405
134	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
135	Distinctive electrical properties in sandwich-structured Al2O3/low density polyethylene nanocomposites. Applied Physics Letters, 2016, 108, .	3.3	44
136	Enhanced breakdown strength of poly(vinylidene fluoride) utilizing rubber nanoparticles for energy storage application. Applied Physics Letters, 2016, 109, .	3.3	51
137	Morphology and crystalline-phase-dependent electrical insulating properties in tailored polypropylene for HVDC cables. Applied Physics Letters, 2016, 109, .	3.3	50
138	Enhanced breakdown strength and energy density in PVDF nanocomposites with functionalized MgO nanoparticles. RSC Advances, 2016, 6, 33599-33605.	3.6	44
139	Density functional theory calculations on Sâ€•S bond dissociation energies of disulfides. Journal of Physical Organic Chemistry, 2016, 29, 6-13.	1.9	22
140	Preparation and dielectric properties of polymer composites incorporated with polydopamine@AgNPs coreâ€“satellite particles. RSC Advances, 2016, 6, 34529-34533.	3.6	22
141	Flexible electrospun polyvinylidene fluoride nanofibrous composites with high electrical conductivity and good mechanical properties by employing ultrasonication induced dispersion of multi-walled carbon nanotubes. Composites Science and Technology, 2016, 128, 201-206.	7.8	24
142	Density functional theory investigation on Pd-catalyzed cross-coupling of azoles with aryl thioethers. Organic and Biomolecular Chemistry, 2016, 14, 4499-4506.	2.8	16
143	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
144	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

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145	Difunctional Grapheneâ€“Fe₃O₄ Hybrid Nanosheet/Polydimethylsiloxane Nanocomposites with High Positive Piezoresistive and Superparamagnetism Properties as Flexible Touch Sensors. Advanced Materials Interfaces, 2016, 3, 1500418.	3.7	23
146	Influence of hierarchy structure on electrical properties of gradient-distribution aluminum oxide/polyethylene nanocomposites. Composites Science and Technology, 2016, 135, 100-105.	7.8	23
147	Recycled polydopamine particles used for special wetting. Materials Chemistry and Physics, 2016, 181, 321-325.	4.0	2
148	High-performance strain sensors based on functionalized graphene nanoplates for damage monitoring. Composites Science and Technology, 2016, 123, 32-38.	7.8	84
149	Tailored wide-frequency dielectric behavior of polyimide composite films with Ba_xSr_{1-x}TiO₃Perovskites ceramic particles. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 113-120.	2.9	14
150	Bio-inspired durable, superhydrophobic magnetic particles for oil/water separation. Journal of Colloid and Interface Science, 2016, 463, 266-271.	9.4	73
151	A remarkable suppression on space charge in isotatic polypropylene by inducing the Î²-crystal formation. Applied Physics Letters, 2015, 107, .	3.3	55
152	Effect of the compatibility on dielectric performance and breakdown strength of poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	2.6	13
153	Preparation and dielectric properties of (Ba_{0.5}Sr_{0.4}Ca_{0.1})TiO₃/polystyrene composites. Journal of Applied Polymer Science, 2015, 132, .	2.6	6
154	Relative facility of the desulfurization of amino acids and their carboxylic derivatives. Journal of Physical Organic Chemistry, 2015, 28, 586-590.	1.9	2
155	Insulating Properties of Low Density Polyethylene/Alumina Nanocomposites. American Journal of Engineering and Applied Sciences, 2015, 8, 405-409.	0.6	2
156	Theoretical investigations on the thiolâ€“thioester exchange steps of different thioesters. Chinese Chemical Letters, 2015, 26, 1259-1264.	9.0	14
157	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
158	Preparation and dielectric properties of coreâ€“shell structured Ag@polydopamine/poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	7.8	85
159	Remarkably variable dielectric and magnetic properties of poly(vinylidene fluoride) nanocomposite films with triple-layer structure. Composites Science and Technology, 2015, 107, 107-112.	7.8	17
160	Two percolation thresholds and remarkably high dielectric permittivity in pristine carbon nanotube/elastomer composites. Applied Nanoscience (Switzerland), 2015, 5, 969-974.	3.1	27
161	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
162	Photo, pH, and thermo triple-responsive spiropyran-based copolymer nanoparticles for controlled release. Chemical Communications, 2015, 51, 12633-12636.	4.1	115

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163	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
164	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
165	Dielectric and magnetic properties of Fe@Fe O /epoxy resin nanocomposites as high-performance electromagnetic insulating materials. Composites Science and Technology, 2015, 114, 57-63.	7.8	21
166	Temperature-dependent electro-mechanical actuation sensitivity in stiffness-tunable BaTiO3/polydimethylsiloxane dielectric elastomer nanocomposites. Applied Physics Letters, 2015, 106, .	3.3	38
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