Progress on the morphological control of conductive ne
composites and the use as electroactive multifunctiona

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Citation Report

#	Article	IF	Citations
1	Heavy duty piezoresistivity induced strain sensing natural rubber/carbon black nanocomposites reinforced with different carbon nanofillers. Materials Research Express, 2014, 1, 035029.	0.8	16
2	Temperature-resistivity characteristics of a segregated conductive CB/PP/UHMWPE composite. Colloid and Polymer Science, 2014, 292, 2891-2898.	1.0	30
3	Understanding dynamic percolation mechanisms in carbonaceous polymer nanocomposites through impedance spectroscopy: Experiments and modeling. Journal of Applied Physics, 2014, 116, .	1.1	11
4	Conductivity stability and its relationship with the filler network structure of elastomer composites with combined fibrous/layered nickel-coated fillers. RSC Advances, 2014, 4, 32482-32489.	1.7	9
5	Role of block copolymer morphology on particle percolation of polymer nanocomposites. Soft Matter, 2014, 10, 8236-8244.	1.2	13
6	The resistivityâ€"strain behavior of conductive polymer composites: stability and sensitivity. Journal of Materials Chemistry A, 2014, 2, 17085-17098.	5.2	185
7	Conductive polymer nanocomposites with hierarchical multi-scale structures via self-assembly of carbon-nanotubes on graphene on polymer-microspheres. Nanoscale, 2014, 6, 7877-7888.	2.8	66
8	Conductive polymer composites with segregated structures. Progress in Polymer Science, 2014, 39, 1908-1933.	11.8	617
9	Electro-synthesis and Characterization of Polymer Nanostructures from Terthiophene Using Silica Mesoporous Films as Template. Electrochemistry, 2014, 82, 146-151.	0.6	14
10	Preparation of conductive polyphenylene sulfide/polyamide 6/multiwalled carbon nanotube composites using the slow migration rate of multiwalled carbon nanotubes from polyphenylene sulfide to polyamide 6. Journal of Applied Polymer Science, 2015, 132, .	1.3	14
11	Rheology of Carbon Nanoparticle Suspensions and Nanocomposites. , 2015, , 59-75.		3
12	An overview of feasibilities and challenge of conductive cellulose for rechargeable lithium based battery. Renewable and Sustainable Energy Reviews, 2015, 50, 204-213.	8.2	40
13	Targeted kinetic strategy for improving the thermal conductivity of epoxy composite containing percolating multi-layer graphene oxide chains. EXPRESS Polymer Letters, 2015, 9, 608-623.	1.1	12
14	Ultrasound-assisted-pressure-induced-flow leading to superior polymer/carbon nanotube composites and foams. Polymer, 2015, 80, 237-244.	1.8	23
15	Composites of hybrids BaTiO₃/carbon nanotubes/polyvinylidene fluoride with high dielectric properties. Journal Physics D: Applied Physics, 2015, 48, 455303.	1.3	15
16	Mechanical vs. electrical hysteresis of carbon nanotube/styreneâ€"butadieneâ€"styrene composites and their influence in the electromechanical response. Composites Science and Technology, 2015, 109, 1-5.	3.8	60
17	Building and testing a simple setup to investigate the electrical properties of polymer/carbon black composites. Composite Structures, 2015, 129, 55-59.	3.1	9
18	3D-Stacked Carbon Composites Employing Networked Electrical Intra-Pathways for Direct-Printable, Extremely Stretchable Conductors. ACS Applied Materials & Interfaces, 2015, 7, 4109-4117.	4.0	24

#	Article	IF	Citations
19	Facile identification of the critical content of multi-layer graphene oxide for epoxy composite with optimal thermal properties. RSC Advances, 2015, 5, 20376-20385.	1.7	10
20	Effect of butadiene/styrene ratio, block structure and carbon nanotube content on the mechanical and electrical properties of thermoplastic elastomers after UV ageing. Polymer Testing, 2015, 42, 225-233.	2.3	37
21	Molecular dynamics simulation of the conductivity mechanism of nanorod filled polymer nanocomposites. Physical Chemistry Chemical Physics, 2015, 17, 22959-22968.	1.3	27
22	Variation in electrical conductivity of conductive polymer composites under shock wave. Mechanics of Materials, 2015, 91, 26-34.	1.7	4
23	Effect of the degree of crystallinity on the electrical properties of MWCNT filled poly (ethylene-co-ethyl acrylate)/LDPE blend composites prepared by melt mixing. Composites Science and Technology, 2015, 117, 351-356.	3.8	8
24	Electroâ€mechanical sensors based on conductive hybrid nanocomposites. Polymers for Advanced Technologies, 2015, 26, 889-897.	1.6	5
25	Electromagnetic shielding response of UV-induced polypyrrole/silver coated wool. Fibers and Polymers, 2015, 16, 585-592.	1.1	53
26	Largely reinforced polyurethane via simultaneous incorporation of poly(lactic acid) and multiwalled carbon nanotubes. RSC Advances, 2015, 5, 30912-30919.	1.7	8
27	Polymer/Graphite Nanocomposites: Physical Features, Fabrication and Current Relevance. Polymer-Plastics Technology and Engineering, 2015, 54, 750-770.	1.9	48
28	Highly Sensitive Piezo-Resistive Graphite Nanoplateletâ€"Carbon Nanotube Hybrids/Polydimethylsilicone Composites with Improved Conductive Network Construction. ACS Applied Materials & Interfaces, 2015, 7, 9652-9659.	4.0	141
29	Effect of Î³-ray irradiation on the microstructure and self-heating property of carbon fiber/polyethylene composite films. Composites Part A: Applied Science and Manufacturing, 2015, 78, 174-180.	3.8	13
30	Dielectric, mechanical and electro-stimulus response properties studies of polyurethane dielectric elastomer modified by carbon nanotube-graphene nanosheet hybrid fillers. Polymer Testing, 2015, 47, 4-11.	2.3	50
31	In situ iodoalkane-reduction of graphene oxide in a polymer matrix: an easy and effective approach for the fabrication of conductive composites. Journal of Materials Chemistry C, 2015, 3, 11531-11539.	2.7	12
32	Polylactide composite foams containing carbon nanotubes and carbon black: Synergistic effect of filler on electrical conductivity. Carbon, 2015, 95, 380-387.	5.4	110
33	Bifunctional Polymer Nanocomposites as Hole-Transport Layers for Efficient Light Harvesting: Application to Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 27676-27684.	4.0	39
34	Copper Phthalocyanine Oligomer Noncovalent Functionalized Graphene-Polyurethane Dielectric Elastomer Composites for Flexible Micro-Actuator. Soft Materials, 2015, 13, 210-218.	0.8	21
35	Temperature sensing of conductive shape memory polymer composites. Materials Letters, 2015, 140, 71-74.	1.3	28
36	A critical review on cellulose: From fundamental to an approach on sensor technology. Renewable and Sustainable Energy Reviews, 2015, 41, 402-412.	8.2	240

#	Article	IF	Citations
37	Electroconductive Composites from Polystyrene Block Copolymers and Cuâ€"Alumina Filler. Materials, 2016, 9, 989.	1.3	2
38	The Effects of Cryomilling CNTs on the Thermal and Electrical Properties of CNT/PMMA Composites. Polymers, 2016, 8, 169.	2.0	17
39	Electro-Mechanical Properties of Multilayer Graphene-Based Polymeric Composite Obtained through a Capillary Rise Method. Sensors, 2016, 16, 1780.	2.1	10
40	Length-dependent broadband electric properties of PMMA composites filled with carbon nanotubes. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1025-1033.	0.8	7
41	Significantly enhanced electrical conductivity of silver nanowire/polyurethane composites via graphene oxide as novelÂdispersant. Composites Science and Technology, 2016, 132, 57-67.	3.8	23
42	Strain sensing conductive polymer composites: Sensitivity and stability. AIP Conference Proceedings, 2016, , .	0.3	4
43	Recent Progress on Ferroelectric Polymer-Based Nanocomposites for High Energy Density Capacitors: Synthesis, Dielectric Properties, and Future Aspects. Chemical Reviews, 2016, 116, 4260-4317.	23.0	1,248
44	Strong increase of the dielectric response of carbon nanotube/poly(vinylidene fluoride) composites induced by carbon nanotube type and pre-treatment. Composites Part B: Engineering, 2016, 93, 310-316.	5.9	34
45	Largely enhanced thermal and electrical conductivity via constructing double percolated filler network in polypropylene/expanded graphite â€" Multi-wall carbon nanotubes ternary composites. Composites Science and Technology, 2016, 130, 28-35.	3.8	86
46	Improving the electrical and electromagnetic shielding properties of conductive silicon rubber filled with Ni-coated carbon fibre by magnetic field. Plastics, Rubber and Composites, 2016, 45, 224-228.	0.9	11
47	The effect of DBP of carbon black on the dynamic self-assembly in a polymer melt. RSC Advances, 2016, 6, 24843-24852.	1.7	15
48	Positive Temperature Coefficient Effect of Polymer Nanocomposites. , 2016, , 83-110.		1
49	Effect of the eutectic Sn-Cu alloy-to-Cu content ratio on the structure and properties of conductive polyamide-66 composites. Composites Science and Technology, 2016, 133, 200-207.	3.8	6
50	Controlling the conductive network formation of polymer nanocomposites filled with nanorods through the electric field. Polymer, 2016, 101, 395-405.	1.8	11
51	Development of electrically conductive-superoleophobic micropillars for reducing surface adhesion of oil at low temperatures. Applied Surface Science, 2016, 389, 623-631.	3.1	7
52	Construction of conductive percolation network with high efficiency in composite film via a novel sparsely partial wrapping strategy. Composites Science and Technology, 2016, 136, 39-45.	3.8	6
53	Effects of electrically inert fillers on the properties of poly(m-xylene adipamide)/multiwalled carbon nanotube composites. Chinese Journal of Polymer Science (English Edition), 2016, 34, 1032-1038.	2.0	10
54	Thermal and electrical properties of poly(phenylene sulfide)/carbon nanotube nanocomposite films with a segregated structure. Composites Part A: Applied Science and Manufacturing, 2016, 91, 77-84.	3.8	17

#	Article	IF	Citations
55	A facile approach for preparation of polystyrene/graphene nanocomposites with ultra-low percolation threshold through an electrostatic assembly process. Composites Science and Technology, 2016, 134, 49-56.	3.8	84
56	Crystallization induced enhancement on electrical conductivity and strength of highly conductive PP composites. Journal of Polymer Research, 2016, 23, 1.	1.2	6
57	Preparation of AlN microspheres/UHMWPE composites for insulating thermal conductors. RSC Advances, 2016, 6, 80262-80267.	1.7	29
58	Use of electrospinning to construct biomaterials for peripheral nerve regeneration. Reviews in the Neurosciences, 2016, 27, 761-768.	1.4	19
59	Control of the Crystalline Morphology of Poly(<scp>l</scp>-lactide) by Addition of High-Melting-Point Poly(<scp>l</scp>-lactide) and Its Effect on the Distribution of Multiwalled Carbon Nanotubes. Journal of Physical Chemistry B, 2016, 120, 7423-7437.	1.2	40
60	Review and analysis of failure detection methods of composites materials systems. , 2016, , .		3
61	Straight and Rod-like Coreâ€"Sheath Crystals of Solution-Crystallized Poly(Îµ-caprolactone)/Multiwalled Carbon Nanotube Nanocomposites. Crystal Growth and Design, 2016, 16, 6817-6827.	1.4	13
62	Conductivity and phase morphology of carbon black-filled immiscible polymer blends under creep: an experimental and theoretical study. Physical Chemistry Chemical Physics, 2016, 18, 32125-32131.	1.3	19
63	Influences of graphene nanoplatelet aspect ratio and thermal treatment on dielectric performances of poly(methyl methacrylate) composites. High Voltage, 2016, 1, 146-150.	2.7	7
64	Electrical and electromagnetic interference shielding characteristics of GNP/UHMWPE composites. Journal Physics D: Applied Physics, 2016, 49, 195302.	1.3	71
65	Largely enhanced electrical properties of polymer composites via the combined effect of volume exclusion and synergy. RSC Advances, 2016, 6, 51900-51907.	1.7	9
66	Low cost and highly conductive elastic composites for flexible and printable electronics. Journal of Materials Chemistry C, 2016, 4, 5839-5848.	2.7	64
67	Recent advances in degradable lactide-based shape-memory polymers. Advanced Drug Delivery Reviews, 2016, 107, 136-152.	6.6	77
68	Controlling dielectrical properties of polymer blends through defined PEDOT nanostructures. RSC Advances, 2016, 6, 62024-62030.	1.7	8
69	Preparation and characterization of novel optically active poly(amideâ€imide)/Î±â€Fe₂O₃ nanocomposites containing <scp>l</scp>â€alanine moieties. Polymer Composites, 2016, 37, 1805-1811.	2.3	0
70	Self-stabilized polyaniline@graphene aqueous colloids for the construction of assembled conductive network in rubber matrix and its chemical sensing application. Composites Science and Technology, 2016, 125, 1-8.	3.8	43
71	Effect of multi-walled carbon nanotubes on the morphology evolution, conductivity and rheological behaviors of poly(methyl methacrylate)/poly(styrene-co-acrylonitrile) blends during isothermal annealing. RSC Advances, 2016, 6, 10099-10113.	1.7	20
72	Conductive polyolefinâ€"rubber nanocomposites with carbon nanotubes. Composites Part A: Applied Science and Manufacturing, 2016, 80, 13-20.	3.8	31

#	Article	IF	Citations
73	Materials and Deposition Processes for Multifunctionality. , 2016, , 19-51.		15
74	Destruction and recovery of a nanorod conductive network in polymer nanocomposites via molecular dynamics simulation. Soft Matter, 2016, 12, 3074-3083.	1.2	11
75	Enhancing the electrical conductivity of carbon black-filled immiscible polymer blends by tuning the morphology. European Polymer Journal, 2016, 78, 106-115.	2.6	87
76	A facile assembly of polyimide/graphene coreâ€"shell structured nanocomposites with both high electrical and thermal conductivities. Composites Part A: Applied Science and Manufacturing, 2016, 84, 472-481.	3.8	75
77	A facile and scalable approach to fabricating free-standing polymerâ€"Carbon nanotube composite electrodes. Synthetic Metals, 2016, 215, 35-40.	2.1	16
78	Structureâ€"property relationship of new polyimideâ€"organically modified silicateâ€"phosphotungstic acid hybrid material system. Journal of Materials Science, 2016, 51, 4815-4824.	1.7	7
79	Structuring tri-continuous structure multiphase composites with ultralow conductive percolation threshold and excellent electromagnetic shielding effectiveness using simple melt mixing. Polymer, 2016, 83, 34-39.	1.8	57
80	Novel multiwalled carbon nanotube grafted with polyethylene glycol-block-polystyrene nanohybrids: ATRP synthesis and detection of benzene vapor. Journal of Materials Science, 2016, 51, 1363-1375.	1.7	5
81	In-chain functionalized polymer induced assembly of nanoparticles: toward materials with tailored properties. Soft Matter, 2016, 12, 1964-1968.	1.2	17
82	Ultrastrong, Chemically Resistant Reduced Graphene Oxide-based Multilayer Thin Films with Damage Detection Capability. ACS Applied Materials & Interfaces, 2016, 8, 6229-6235.	4.0	15
83	An electrical-heating and self-sensing shape memory polymer composite incorporated with carbon fiber felt. Smart Materials and Structures, 2016, 25, 035036.	1.8	37
84	Distinct positive temperature coefficient effect of polymerâ€"carbon fiber composites evaluated in terms of polymer absorption on fiber surface. Physical Chemistry Chemical Physics, 2016, 18, 8081-8087.	1.3	21
85	Shape memory-based tunable resistivity of polymer composites. Applied Surface Science, 2016, 363, 59-65.	3.1	20
86	Durable Microstructured Surfaces: Combining Electrical Conductivity with Superoleophobicity. ACS Applied Materials & Interfaces, 2016, 8, 1795-1804.	4.0	18
87	Molecular imprinting method for fabricating novel glucose sensor: Polyvinyl acetate electrode reinforced by MnO2/CuO loaded on graphene oxide nanoparticles. Food Chemistry, 2016, 194, 61-67.	4.2	122
88	A Review of the Recent Advances in Cyclic Butylene Terephthalate Technology and its Composites. Critical Reviews in Solid State and Materials Sciences, 2017, 42, 173-217.	6.8	22
89	Effects of glass fiber on the properties of polyoxymethylene/thermoplastic polyurethane/multiwalled carbon nanotube composites. Polymer Composites, 2017, 38, 1319-1326.	2.3	8
90	Segregated conductive network of MWCNT in PA12/PA6 composites: Electrical and rheological behavior. Polymer Composites, 2017, 38, 2679-2686.	2.3	16

#	Article	IF	Citations
91	Remarkable Conductive Anisotropy of Metallic Microcoil/PDMS Composites Made by Electric Field Induced Alignment. ACS Applied Materials & Interfaces, 2017, 9, 1593-1601.	4.0	56
92	Ultralow Percolation Threshold in Poly(<scp>l</scp>-lactide)/Poly(Îµ-caprolactone)/Multiwall Carbon Nanotubes Composites with a Segregated Electrically Conductive Network. Journal of Physical Chemistry C, 2017, 121, 3087-3098.	1.5	83
93	Segregated network formation of multiwalled carbon nanotubes in natural rubber through surfactant assisted latex compounding: A novel technique for multifunctional properties. Polymer, 2017, 112, 264-277.	1.8	53
94	An Ionic Liquid as Interface Linker for Tuning Piezoresistive Sensitivity and Toughness in Poly(vinylidene fluoride)/Carbon Nanotube Composites. ACS Applied Materials & Interfaces, 2017, 9, 5437-5446.	4.0	52
95	Achieving a low electrical percolation threshold andÂsuperior mechanical performance in poly(<scp>l</scp>-lactide)/thermoplastic polyurethane/carbon nanotubes composites via tailoring phase morphology with the aid of stereocomplex crystallites. RSC Advances, 2017, 7, 11076-11084.	1.7	19
96	Multifunctional polymer composites reinforced by carbon nanotubesâ€"Alumina hybrids with urchin-like structure. Materials Today Communications, 2017, 11, 94-102.	0.9	18
97	A novel route towards tunable piezoresistive behavior in conductive polymer composites: Addition of insulating filler with different size and surface characteristics. Composites Part A: Applied Science and Manufacturing, 2017, 96, 99-109.	3.8	34
98	Design and Preparation of a Unique Segregated Double Network with Excellent Thermal Conductive Property. ACS Applied Materials & Interfaces, 2017, 9, 7637-7647.	4.0	155
99	Enhanced dielectric properties of polyimide/BaTiO3 nanocomposite by embedding the polypyrrole@polyimide core-shell nanoparticles. Macromolecular Research, 2017, 25, 290-296.	1.0	8
100	Crystallization kinetics and morphology of biodegradable Poly(Îµ-caprolactone) with chain-like distribution of ferroferric oxide nanoparticles: Toward mechanical enhancements. Polymer, 2017, 117, 84-95.	1.8	11
101	Poly(phenylmethylsiloxane) functionalized multiwalled carbon nanotube/poly(dimethylsiloxane) nanocomposites with high piezoresistivity, low modulus and high conductivity. Journal of Materials Science: Materials in Electronics, 2017, 28, 6897-6906.	1.1	5
102	Improved electrical conductivity of TPU/carbon black composites by addition of COPA and selective localization of carbon black at the interface of sea-island structured polymer blends. Soft Matter, 2017, 13, 3431-3439.	1.2	44
103	TiO2 hybrid polypropylene/nickel coated glass fiber conductive composites for highly efficient electromagnetic interference shielding. Journal of Materials Science: Materials in Electronics, 2017, 28, 5725-5732.	1.1	15
104	Enhanced electrical conductivity and piezoresistive sensing in multi-wall carbon nanotubes/polydimethylsiloxane nanocomposites via the construction of a self-segregated structure. Nanoscale, 2017, 9, 11017-11026.	2.8	179
105	Chitosan/gelatin porous scaffolds assembled with conductive poly(3,4-ethylenedioxythiophene) nanoparticles for neural tissue engineering. Journal of Materials Chemistry B, 2017, 5, 4774-4788.	2.9	119
106	Improved electrical conductivity of PDMS/SCF composite sheets with bolting cloth prepared by a spatial confining forced network assembly method. RSC Advances, 2017, 7, 14761-14768.	1.7	35
107	Polymer Composite with Improved Thermal Conductivity by Constructing a Hierarchically Ordered Three-Dimensional Interconnected Network of BN. ACS Applied Materials & Interfaces, 2017, 9, 13544-13553.	4.0	394
108	A representative and comprehensive review of the electrical and thermal properties of polymer composites with carbon nanotube and other nanoparticle fillers. Polymer International, 2017, 66, 1237-1251.	1.6	45

#	Article	IF	Citations
109	Tailoring the alignment of string-like nanoparticle assemblies in a functionalized polymer matrix via steady shear. RSC Advances, 2017, 7, 8898-8907.	1.7	4
110	Development of water-based printable piezoresistive sensors for large strain applications. Composites Part B: Engineering, 2017, 112, 344-352.	5.9	70
111	New approach to morphological control for polypropylene/polyethylene blends via magnetic self-organization. Materials and Design, 2017, 117, 24-36.	3.3	21
112	Superhydrophobic Rubber-Modified Polybenzoxazine/SiO₂ Nanocomposite Coating with Anticorrosion, Anti-Ice, and Superoleophilicity Properties. Industrial & Engineering Chemistry Research, 2017, 56, 1485-1497.	1.8	112
113	Influence of Thermal Treatments on the Evolution of Conductive Paths in Carbon Nanotube-Al₂O₃ Hybrid Reinforced Epoxy Composites. Langmuir, 2017, 33, 9680-9686.	1.6	14
114	Preparation of highly conductive composites with segregated structure based on polyamide-6 and reduced graphene oxide. Materials Letters, 2017, 190, 71-74.	1.3	26
115	Conductive network formation and destruction in polypropylene/carbon nanotube composites via crystal control using supercritical carbon dioxide. Polymer, 2017, 129, 179-188.	1.8	53
116	Role of the particle size polydispersity in the electrical conductivity of carbon nanotube-epoxy composites. Scientific Reports, 2017, 7, 12553.	1.6	24
117	Recent Progress on the Confinement, Assembly, and Relaxation of Inorganic Functional Fillers in Polymer Matrix during Processing. Macromolecular Rapid Communications, 2017, 38, 1700444.	2.0	15
118	Comparison between the efficiencies of two conductive networks formed in carbon black-filled ternary polymer blends by different hierarchical structures. Polymer Testing, 2017, 63, 141-149.	2.3	22
119	Universal Control on Pyroresistive Behavior of Flexible Selfâ€Regulating Heating Devices. Advanced Functional Materials, 2017, 27, 1702253.	7.8	34
120	Recent Advances in Conductive Composites Based on Biodegradable Polymers for Regenerative Medicine Applications. , 2017, , 519-542.		0
121	Electrical, Elastic, and Piezoresistive Properties of Nanocomposites of Poly(dimethylsiloxane) and Poly(phenylmethylsiloxane)-Functionalized Graphene Nanoplatelets. Journal of Electronic Materials, 2017, 46, 5737-5745.	1.0	4
122	Improved thermal conductivity of ceramic fillerâ€filled polyamide composites by using PA6/PA66 1:1 blend as matrix. Journal of Applied Polymer Science, 2017, 134, 45371.	1.3	9
123	Spatial Confining Forced Network Assembly for preparation of high-performance conductive polymeric composites. Composites Part A: Applied Science and Manufacturing, 2017, 102, 88-95.	3.8	61
124	Nanopolydopamine coupled fluorescent nanozinc oxide reinforced epoxy nanocomposites. Composites Part A: Applied Science and Manufacturing, 2017, 102, 126-136.	3.8	95
125	Thermal and dielectric characterization of multi-walled carbon nanotubesâˆ’thermoplastic polyurethanes composites. Polymer Science - Series A, 2017, 59, 543-553.	0.4	0
126	Patternable Solvent-Processed Thermoplastic Graphite Electrodes. Journal of the American Chemical Society, 2017, 139, 12623-12631.	6.6	65

#	Article	IF	Citations
127	Ultralow percolation threshold and enhanced electromagnetic interference shielding in poly(<scp>l</scp>-lactide)/multi-walled carbon nanotube nanocomposites with electrically conductive segregated networks. Journal of Materials Chemistry C, 2017, 5, 9359-9369.	2.7	322
128	Performances Enhancement in Perovskite Solar Cells by Incorporating Plasmonic Au NRs@SiO₂ at Absorber/HTL Interface. Solar Rrl, 2017, 1, 1700151.	3.1	21
129	High-performance graphene-based carbon nanofiller/polymer composites for piezoresistive sensor applications. Composites Science and Technology, 2017, 153, 241-252.	3.8	86
130	Enhanced electrical properties of graphite/ABS composites prepared via supercritical CO2 processing. Polymer Bulletin, 2017, 74, 4279-4295.	1.7	6
131	Enhancement of the performance of cadmium sulfide quantum dot solar cells using a platinumâ€"polyaniline counter electrode and a silver nanoparticle-sensitized photoanode. Journal of Nanophotonics, 2017, 11, 036001.	0.4	1
132	A sensing approach for dopamine determination by boronic acid-functionalized molecularly imprinted graphene quantum dots composite. Applied Surface Science, 2017, 423, 810-816.	3.1	55
133	Ultra-broadband frequency responsive sensor based on lightweight and flexible carbon nanostructured polymeric nanocomposites. Carbon, 2017, 121, 490-501.	5.4	46
134	Hyaluronic acid doped-poly(3,4-ethylenedioxythiophene)/chitosan/gelatin (PEDOT-HA/Cs/Gel) porous conductive scaffold for nerve regeneration. Materials Science and Engineering C, 2017, 71, 308-316.	3.8	106
135	Conducting Polymer Nanocomposites: Recent Developments and Future Prospects. Springer Series on Polymer and Composite Materials, 2017, , 1-44.	0.5	13
136	Electroactive nanostructured scaffold produced by controlled deposition of PPy on electrospun PCL fibres. Research on Chemical Intermediates, 2017, 43, 1235-1251.	1.3	40
137	Influence of thermoplastic spacer on the mechanical, electrical, and thermal properties of carbon black filled epoxy adhesives. Polymers for Advanced Technologies, 2017, 28, 345-352.	1.6	14
138	Differences in crystal growth behaviors of boehmite particles with octanoic acid and sodium octanoate under supercritical hydrothermal conditions. Journal of Supercritical Fluids, 2017, 119, 81-87.	1.6	6
139	7 Graphene/Polymer Composite Materials: Processing, Properties and Applications. , 2017, , 349-419.		19
140	Influences of Thermal Treatment on the Dielectric Performances of Polystyrene Composites Reinforced by Graphene Nanoplatelets. Materials, 2017, 10, 838.	1.3	9
141	Development of AlN/Epoxy Composites with Enhanced Thermal Conductivity. Materials, 2017, 10, 1442.	1.3	15
142	Tunable Electrical Conductivity of Carbon-Black-Filled Ternary Polymer Blends by Constructing a Hierarchical Structure. Polymers, 2017, 9, 404.	2.0	26
143	Short Oxygen Plasma Treatment Leading to Long-Term Hydrophilicity of Conductive PCL-PPy Nanofiber Scaffolds. Polymers, 2017, 9, 614.	2.0	23
144	A Polymer-Alloy Binder for Structures-Properties Control of Battery Electrodes. Energy Storage Materials, 2018, 14, 149-158.	9.5	21

#	Article	IF	Citations
145	A super-hydrophobic and electrically conductive nanofibrous membrane for a chemical vapor sensor. Journal of Materials Chemistry A, 2018, 6, 10036-10047.	5.2	39
146	Ionic liquid: A smart approach for developing conducting polymer composites. Journal of Molecular Liquids, 2018, 262, 8-18.	2.3	51
147	A review on thermally conductive polymeric composites: classification, measurement, model and equations, mechanism and fabrication methods. Advanced Composites and Hybrid Materials, 2018, 1, 207-230.	9.9	260
148	Constructing a filler network for thermal conductivity enhancement in epoxy composites via reaction-induced phase separation. Composites Part A: Applied Science and Manufacturing, 2018, 110, 62-69.	3.8	50
149	Effect of grafted graphene nanosheets on morphology evolution and conductive behavior of poly(methyl methacrylate)/poly(styrene-co-acrylonitrile) blends during isothermal annealing. RSC Advances, 2018, 8, 14579-14588.	1.7	9
150	Positive temperature coefficient effect and mechanism of compatible LLDPE/HDPE composites doping conductive graphite powders. Journal of Applied Polymer Science, 2018, 135, 46453.	1.3	14
151	Network density tailored standalone-flexible fluorocarbon elastomer/nanocarbon black chemiresistors for 2-propanone field detection. Sensors and Actuators B: Chemical, 2018, 265, 193-203.	4.0	6
152	Recent progress on thermal conductive and electrical insulating polymer composites. Composites Communications, 2018, 8, 74-82.	3.3	135
153	Tailored pyroresistive performance and flexibility by introducing a secondary thermoplastic elastomeric phase into graphene nanoplatelet (GNP) filled polymer composites for self-regulating heating devices. Journal of Materials Chemistry C, 2018, 6, 2760-2768.	2.7	28
154	Fabrication, proposed model and simulation predictions on thermally conductive hybrid cyanate ester composites with boron nitride fillers. Composites Part A: Applied Science and Manufacturing, 2018, 107, 570-578.	3.8	99
155	Significantly enhanced and precisely modeled thermal conductivity in polyimide nanocomposites with chemically modified graphene via in situ polymerization and electrospinning-hot press technology. Journal of Materials Chemistry C, 2018, 6, 3004-3015.	2.7	360
156	Conductive polymer composites with carbonic fillers: Shear induced electrical behaviour. Polymer, 2018, 139, 52-59.	1.8	10
157	Production of Value-Added Composites from Aluminumâ€"Plastic Package Waste via Solid-State Shear Milling Process. ACS Sustainable Chemistry and Engineering, 2018, 6, 4282-4293.	3.2	31
158	Piezoresistive response of extruded polyaniline/(styrene-butadiene-styrene) polymer blends for force and deformation sensors. Materials and Design, 2018, 141, 1-8.	3.3	51
159	Graphene oxide-assisted dispersion of multi-walled carbon nanotubes in biodegradable Poly(Îµ-caprolactone) for mechanical and electrically conductive enhancement. Polymer Testing, 2018, 65, 387-397.	2.3	42
160	Scavenging phenomenon and improved electrical and mechanical properties of polyanilineâ€"divinylbenzene composite in presence of MWCNT. International Journal of Mechanics and Materials in Design, 2018, 14, 697-708.	1.7	12
161	Facile fabrication of highly conductive polystyrene/nanocarbon composites with robust interconnected network via electrostatic attraction strategy. Journal of Materials Chemistry C, 2018, 6, 550-557.	2.7	33
162	Water based scintillator ink for printed X-ray radiation detectors. Polymer Testing, 2018, 69, 26-31.	2.3	5

#	Article	IF	Citations
163	Low magnetic field-induced alignment of nickel particles in segregated poly(l-lactide)/poly(Îµ-caprolactone)/multi-walled carbon nanotube nanocomposites: Towards remarkable and tunable conductive anisotropy. Chemical Engineering Journal, 2018, 347, 472-482.	6.6	61
164	Electrolyte and current density determines the fate of electrodeposited polythiophene from waveguide to photovoltaics. Solar Energy Materials and Solar Cells, 2018, 183, 107-119.	3.0	3
165	Hybrid Carbon Nanoparticles in Polymer Matrix for Efficient Connected Networks: Self-Assembly and Continuous Pathways. Macromolecules, 2018, 51, 3547-3562.	2.2	16
166	Segregated polypropylene/cross-linked poly(ethylene-co-1-octene)/multi-walled carbon nanotube nanocomposites with low percolation threshold and dominated negative temperature coefficient effect: Towards electromagnetic interference shielding and thermistors. Composites Science and Technology, 2018, 159, 152-161.	3.8	83
167	Reversible switching of PEDOT:PSS conductivity in the dielectricâ€"conductive range through the redistribution of light-governing polymers. RSC Advances, 2018, 8, 11198-11206.	1.7	12
168	Tune the phase morphology to design conductive polymer composites: A review. Polymer Composites, 2018, 39, 2985-2996.	2.3	52
169	Enhanced dielectric properties through using mixed fillers consisting of nano-barium titanate/nickel hydroxide for polyvinylidene fluoride based composites. Composites Part A: Applied Science and Manufacturing, 2018, 104, 24-31.	3.8	28
170	Highly efficient electrically conductive networks in carbonâ€blackâ€filled ternary blends through the formation of thermodynamically induced selfâ€assembled hierarchical structures. Journal of Applied Polymer Science, 2018, 135, 45877.	1.3	10
171	Enhanced dielectric properties of poly(vinylidene fluoride) composite filled with polyaniline-iron core-shell nanocomposites. Materials Letters, 2018, 210, 165-168.	1.3	26
172	A simple model for electrical conductivity of polymer carbon nanotubes nanocomposites assuming the filler properties, interphase dimension, network level, interfacial tension and tunneling distance. Composites Science and Technology, 2018, 155, 252-260.	3.8	68
173	Improved dispersion of carbon nanotubes in poly(vinylidene fluoride) composites by hybrids with coreâ€"shell structure. Journal of Applied Polymer Science, 2018, 135, 45693.	1.3	4
174	Improved electrical heating properties for polymer nanocomposites by electron beam irradiation. Polymer Bulletin, 2018, 75, 2847-2863.	1.7	10
175	Effect of phase transitions on the electrical properties of polymer/carbon nanotube and polymer/graphene nanoplatelet composites with different conductive network structures. Polymer International, 2018, 67, 227-235.	1.6	35
176	Highly stretchable conductive thermoplastic vulcanizate/carbon nanotube nanocomposites with segregated structure, low percolation threshold and improved cyclic electromechanical performance. Journal of Materials Chemistry C, 2018, 6, 350-359.	2.7	48
177	Ultralow-Threshold and Lightweight Biodegradable Porous PLA/MWCNT with Segregated Conductive Networks for High-Performance Thermal Insulation and Electromagnetic Interference Shielding Applications. ACS Applied Materials & Interfaces, 2018, 10, 1195-1203.	4.0	241
178	Effect of phase coarsening under melt annealing on the electrical performance of polymer composites with a double percolation structure. Physical Chemistry Chemical Physics, 2018, 20, 137-147.	1.3	18
179	Sensitivity, influence of the strain rate and reversibility of GNPs based multiscale composite materials for high sensitive strain sensors. Composites Science and Technology, 2018, 155, 100-107.	3.8	29
180	Enhanced mechanical, conductivity, and dielectric characteristics of ethylene vinyl acetate copolymer composite filled with carbon nanotubes. Journal of Thermoplastic Composite Materials, 2018, 31, 1161-1180.	2.6	22

#	Article	IF	Citations
181	Constructing a double-percolated conductive network in a carbon nanotube/polymer-based flexible semiconducting composite. Composites Science and Technology, 2018, 154, 45-52.	3.8	26
182	Hotâ€melt adhesives based on coâ€polyamide and multiwalled carbon nanotubes. Journal of Applied Polymer Science, 2018, 135, 45999.	1.3	10
183	Electrically conductive polymer composites for smart flexible strain sensors: a critical review. Journal of Materials Chemistry C, 2018, 6, 12121-12141.	2.7	522
184	Electro-capacitive performance of haemoglobin/polypyrrole composites for high power density electrode. Journal of Analytical Science and Technology, 2018, 9, .	1.0	4
185	Damage self-sensing behavior of carbon nanofiller reinforced polymer composites with different conductive network structures. Polymer, 2018, 158, 308-319.	1.8	45
186	Prospects of Natural Polymeric Scaffolds in Peripheral Nerve Tissue-Regeneration. Advances in Experimental Medicine and Biology, 2018, 1077, 501-525.	0.8	18
187	Enhanced thermal conductivity and electrical insulation properties of polymer composites via constructing Pglass/CNTs confined hybrid fillers. Composites Part A: Applied Science and Manufacturing, 2018, 115, 1-7.	3.8	39
188	On the use of surfactants for improving nanofiller dispersion and piezoresistive response in stretchable polymer composites. Journal of Materials Chemistry C, 2018, 6, 10580-10588.	2.7	34
189	Design and fabrication of electroâ€conductive polymer nanocomposites with mechanical and thermal resistance. Polymer International, 2018, 67, 1203-1211.	1.6	2
190	Conductive Hydrogels as Smart Materials for Flexible Electronic Devices. Chemistry - A European Journal, 2018, 24, 16930-16943.	1.7	215
191	Self-healing, recoverable epoxy elastomers and their composites with desirable thermal conductivities by incorporating BN fillers via in-situ polymerization. Composites Science and Technology, 2018, 164, 59-64.	3.8	264
192	Polymer Nanocomposite-Based Strain Sensors with Tailored Processability and Improved Device Integration. ACS Applied Nano Materials, 2018, 1, 3015-3025.	2.4	32
193	Effect of adding carbon fiber on conductive stability of acrylonitrileâ€butadiene rubber composites. Journal of Applied Polymer Science, 2018, 135, 46668.	1.3	9
194	Low magnetic field-induced morphological regulation in isotactic polypropylene/poly(Îµ-caprolactone)/carbon black composites for high electrical conductivity and conductive anisotropy. Composites Communications, 2018, 9, 58-62.	3.3	14
195	Actuation behavior of PDMS dielectric elastomer composites containing optimized graphene oxide. Smart Materials and Structures, 2018, 27, 085021.	1.8	62
196	Polymer-based nanocomposites for significantly enhanced dielectric properties and energy storage capability. , 2018, , 131-183.		4
197	Conductive HNTs-PEDOT hybrid preparation and its application in enhancing the dielectric permittivity of HNTs-PEDOT/PVDF composites. Applied Surface Science, 2018, 458, 924-930.	3.1	8
198	Enhanced piezo-response in copper halide perovskites based PVDF composite films. Science Bulletin, 2018, 63, 1254-1259.	4.3	31

#	Article	IF	Citations
199	Ultra-stretchable, sensitive and durable strain sensors based on polydopamine encapsulated carbon nanotubes/elastic bands. Journal of Materials Chemistry C, 2018, 6, 8160-8170.	2.7	131
200	Effects of the total content of eutectic Sn-Cu alloy and Cu particles used as conductive filler on the structure and properties of polyamide-66 composites. Journal of Polymer Research, 2018, 25, 1.	1.2	2
201	Three-dimensional graphene-based polymer nanocomposites: preparation, properties and applications. Nanoscale, 2018, 10, 14788-14811.	2.8	162
202	Ultra-low percolation threshold in epoxy resinâ€“onion-like carbon composites. Applied Physics Letters, 2018, 113, .	1.5	13
203	Ultralight Microcellular Polymerâ€“Graphene Nanoplatelet Foams with Enhanced Dielectric Performance. ACS Applied Materials & Interfaces, 2018, 10, 19987-19998.	4.0	79
204	Highly sensitive and stretchable graphene-silicone rubber composites for strain sensing. Composites Science and Technology, 2018, 167, 371-378.	3.8	167
205	Synergistic Effect of Graphite and Carbon Nanotubes on Improved Electromagnetic Interference Shielding Performance in Segregated Composites. Industrial & Engineering Chemistry Research, 2018, 57, 11929-11938.	1.8	78
206	Attenuated Glial Reactivity on Topographically Functionalized Poly(3,4â€Ethylenedioxythiophene):Pâ€Toluene Sulfonate (PEDOT:PTS) Neuroelectrodes Fabricated by Microimprint Lithography. Small, 2018, 14, e1800863.	5.2	29
207	Synthesis and characterization of a conductive and self-healing composite. Synthetic Metals, 2018, 243, 58-66.	2.1	13
208	A mathematical model for predicting conductivity of polymer composites with a forced assembly network obtained by SCFNA method. Polymer Composites, 2019, 40, 1819-1827.	2.3	23
209	Injection-Compression-Compression Process for Preparation of High-Performance Conductive Polymeric Composites. Applied Composite Materials, 2019, 26, 1139-1150.	1.3	4
210	A facile route to fabricate thermally conductive and electrically insulating polymer composites with 3D interconnected graphene at an ultralow filler loading. Nanoscale, 2019, 11, 15234-15244.	2.8	44
211	Investigation of conductive hybrid polymer composites reinforced with copper micro fibers and carbon nanotubes produced by injection molding. Materials Today Communications, 2019, 20, 100566.	0.9	8
212	Recent trends in peripheral nervous regeneration using 3D biomaterials. Tissue and Cell, 2019, 59, 70-81.	1.0	11
213	Copper(II) Ion-Doped Polyimide Composite for Nonenzymatic Electrochemical Hydrogen Peroxide Sensing. International Journal of Electrochemical Science, 2019, , 4891-4902.	0.5	2
214	Cationic Polyelectrolyte Bridged Boron Nitride Microplatelet Based Poly(vinyl alcohol) Composite: A Novel Method toward High Thermal Conductivity. Advanced Materials Interfaces, 2019, 6, 1900787.	1.9	24
215	Free volume correlation with electrical conductivity of polycarbonate/reduced graphene oxide nanocomposites studied by positron annihilation lifetime spectroscopy. Journal of Applied Polymer Science, 2019, 136, 48207.	1.3	9
216	Controlled self-assembly synthesis of CuCo2O4/rGO for improving the morphology-dependent electrochemical oxygen evolution performance. Applied Surface Science, 2019, 493, 710-718.	3.1	21

#	Article	IF	Citations
217	Effects of polymer-filler interactions on controlling the conductive network formation in polyamide 6/multi-Walled carbon nanotube composites. Polymer, 2019, 178, 121684.	1.8	40
218	Fabrication of PLA/CNC/CNT conductive composites for high electromagnetic interference shielding based on Pickering emulsions method. Composites Part A: Applied Science and Manufacturing, 2019, 125, 105558.	3.8	83
219	Molecular dynamics simulation of the electrical conductive network formation of polymer nanocomposites by utilizing diblock copolymer-mediated nanoparticles. Soft Matter, 2019, 15, 6331-6339.	1.2	5
220	Morphology and electrical properties of polypropylene/polyamide 6/glass fiber composites with low carbon black loading. Journal of Polymer Engineering, 2019, 39, 813-821.	0.6	5
221	Adjusting Distribution of Multiwall Carbon Nanotubes in Poly(<scp>L</scp>-lactide)/Poly(oxymethylene) Blends via Constructing Stereocomplex Crystallites: Toward Conductive and Microwave Shielding Enhancement. Journal of Physical Chemistry C, 2019, 123, 27884-27895.	1.5	22
222	The electrical conductive behaviours of polymer-based three-phase composites prepared by spatial confining forced network assembly. EXPRESS Polymer Letters, 2019, 13, 713-723.	1.1	11
223	An overview of stretchable strain sensors from conductive polymer nanocomposites. Journal of Materials Chemistry C, 2019, 7, 11710-11730.	2.7	315
224	Dielectric Properties of Epoxy-Matrix Composites with Tungsten Disulfide Nanotubes. Journal of Nanomaterials, 2019, 2019, 1-8.	1.5	2
225	Conductive nylon-MXD6 composites prepared by melt compounding associated with formation of carbon black-covered PET domains serving as big conductive particles. Polymer, 2019, 182, 121809.	1.8	7
226	Affordable Polymerâ€"Carbon Composite Electrodes for Electroosmotic Dehydration and Electro-Fenton Processes. Industrial & Engineering Chemistry Research, 2019, 58, 19917-19925.	1.8	4
227	Few-layer boron nitride nanosheets exfoliated with assistance of fluoro hyperbranched copolymer for poly(vinylidene fluoride-trifluoroethylene) nanocomposite film capacitor. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 580, 123735.	2.3	10
228	Haemoglobin/polyindole composites: the novel material for electrochemical supercapacitors. Bulletin of Materials Science, 2019, 42, 1.	0.8	10
229	Strain-sensitive electrical conductivity of carbon nanotube-graphene-filled rubber composites under cyclic loading. Nanoscale, 2019, 11, 578-586.	2.8	93
230	Selectively localized nanosilica particles at the phase interface of PS/PA6/nanosilica composites with co-continuous structure via reactive extrusion. Composites Science and Technology, 2019, 172, 125-133.	3.8	21
231	Morphology and Mechanical Properties of Polyamide 6/Acrylonitrile-Butadiene-Styrene Blends Containing Carbon Nanotubes. Journal of Macromolecular Science - Physics, 2019, 58, 355-370.	0.4	9
232	Conductive Polymer Composites from Renewable Resources: An Overview of Preparation, Properties, and Applications. Polymers, 2019, 11, 187.	2.0	97
233	Study of chromatographic fractions from carbon dots isolated by column chromatography and a binary gradient elution via RP-HPLC. Analytical Methods, 2019, 11, 760-766.	1.3	14
234	Superhydrophobic Electrically Conductive Paper for Ultrasensitive Strain Sensor with Excellent Anticorrosion and Self-Cleaning Property. ACS Applied Materials & Interfaces, 2019, 11, 21904-21914.	4.0	228

#	Article	IF	Citations
235	Conductivity of poly(methyl methacrylate) composite films filled with ultra-high aspect ratio carbon fibers. Composites Science and Technology, 2019, 181, 107690.	3.8	13
236	Piezoresistive performance of polymer-based materials as a function of the matrix and nanofiller content to walking detection application. Composites Science and Technology, 2019, 181, 107678.	3.8	43
237	Self-Healing Polycarbonate-Based Polyurethane with Shape Memory Behavior. Macromolecular Research, 2019, 27, 649-656.	1.0	5
238	Selective localization of multiâ€walled carbon nanotubes in epoxy/polyetherimide system and properties of the conductive composites. Journal of Applied Polymer Science, 2019, 136, 47911.	1.3	16
239	Graphene-based composite for dielectric elastomer actuator: A comprehensive review. Sensors and Actuators A: Physical, 2019, 293, 222-241.	2.0	70
240	Sensitive conductive polymer nanocomposites from multiwalled carbon nanotube coated with polypyrrole and hydroxyl-terminated poly(butadiene-co-acrylonitile) polyurethane for detection of chloroform vapor. Composites Part B: Engineering, 2019, 173, 106894.	5.9	12
241	Carbon nanofiller networks- a comparative study of networks formed by branched versus linear carbon nanotubes in thermoplastic polyurethane. Polymer, 2019, 175, 227-234.	1.8	27
242	Universal and anisotropic simulation platform for the study of electrical properties of conductive polymer composites. AIP Conference Proceedings, 2019, , .	0.3	0
243	Effects of branched carbon nanotubes and graphene nanoplatelets on dielectric properties of thermoplastic polyurethane at different temperatures. Composites Part B: Engineering, 2019, 166, 673-680.	5.9	44
244	Effect of carbon nanotube morphology on properties in thermoplastic elastomer composites for strain sensors. Composites Part A: Applied Science and Manufacturing, 2019, 121, 207-212.	3.8	76
245	Enhanced dielectric performance and energy storage of PVDFâ€HFPâ€based composites induced by surface charged Al₂O₃. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 574-583.	2.4	33
246	A Photoaddressable Liquid Crystalline Phase Transition in Graphene Oxide Nanocomposites. Advanced Functional Materials, 2019, 29, 1900738.	7.8	2
247	Mechanism of Reactive Compatibilization of PLLA/PVDF Blends Investigated by Scanning Transmission Electron Microscopy with Energy-Dispersive X-ray Spectrometry and Electron Energy Loss Spectroscopy. ACS Applied Polymer Materials, 2019, 1, 815-824.	2.0	18
248	Enhancement of thermal conductivity and tensile strength of liquid silicone rubber by three-dimensional alumina network. Soft Materials, 2019, 17, 297-307.	0.8	12
249	Asymmetric deformation in poly(ethylene-co-1-octene)/multi-walled carbon nanotube composites with glass micro-beads for highly piezoresistive sensitivity. Chemical Engineering Journal, 2019, 370, 176-184.	6.6	34
250	High Energy Density in Poly(Vinylidene Fluorideâ€Chlorotrifluoroethylene) Nanocomposite with Oriented Graphene Exfoliated with Assistance of Fluoro Hyperbranched Copolymer. Energy Technology, 2019, 7, 1900023.	1.8	1
251	Gentle crosslinking to enhance interfacial interaction in thermoplastic polyurethane/poly(ethylene-co-1-octene)/multi-walled carbon nanotube composites for conductive improvement and piezoresistive stability. Polymer Testing, 2019, 75, 142-150.	2.3	10
252	Extremely strong and tough polythiophene composite for flexible electronics. Chemical Engineering Journal, 2019, 368, 933-940.	6.6	40

#	Article	IF	Citations
253	Tailoring the hybrid network structure of boron nitride/carbon nanotube to achieve thermally conductive poly(vinylidene fluoride) composites. Composites Communications, 2019, 13, 30-36.	3.3	19
254	Optimizing the electrical conductivity of polymer nanocomposites under the shear field by hybrid fillers: Insights from molecular dynamics simulation. Polymer, 2019, 168, 138-145.	1.8	13
255	Introductory Chapter: The Way to Fulfill Science Fiction. , 2019, , .		0
256	Highly Sensitive Piezoresistive Graphene-Based Stretchable Composites for Sensing Applications. ACS Applied Materials & Interfaces, 2019, 11, 46286-46295.	4.0	50
257	Efficient preparation of PDMS-based conductive composites using self-designed automatic equipment and an application example. Journal of Polymer Engineering, 2019, 39, 892-901.	0.6	8
258	Recent Advances and Future Prospects in Spark Plasma Sintered Alumina Hybrid Nanocomposites. Nanomaterials, 2019, 9, 1607.	1.9	20
259	Percolation analysis of the electrical conductive network in a polymer nanocomposite by nanorod functionalization. RSC Advances, 2019, 9, 36324-36333.	1.7	7
260	Constructing interconnected spherical hollow conductive networks in silver platelets/reduced graphene oxide foam/epoxy nanocomposites for superior electromagnetic interference shielding effectiveness. Nanoscale, 2019, 11, 22590-22598.	2.8	130
261	Poly(pyrrole-co-o-toluidine) wrapped CoFe₂O₄/R(GOâ€“OXSWCNTs) ternary composite material for Ga³⁺ sensing ability. RSC Advances, 2019, 9, 33052-33070.	1.7	29
262	Perovskite solar cell-hybrid devices: thermoelectrically, electrochemically, and piezoelectrically connected power packs. Journal of Materials Chemistry A, 2019, 7, 26661-26692.	5.2	24
263	Mechanical and Electrical Characterization of Two Carbon/Ultra High Molecular Weight Polyethylene Composites Created Via Equal Channel Angular Processing. Journal of Engineering Materials and Technology, Transactions of the ASME, 2019, 141, .	0.8	6
264	Control of Conductive and Mechanical Performances of Poly(Amideâ€Imide) Composite Films Utilizing Synergistic Effect of Polyaniline and Multiâ€Walled Carbon Nanotube. Polymer Engineering and Science, 2019, 59, E224.	1.5	26
265	Electrical Conductivity in Polymer Composite Filled With Carbon Microfillers. , 2019, , 19-40.		0
266	Localization control of carbon nanotubes in immiscible polylactide/vulcanized epoxidized soybean oil blends. Composites Communications, 2019, 11, 6-11.	3.3	15
267	Pyroresistivity in conductive polymer composites: a perspective on recent advances and new applications. Polymer International, 2019, 68, 299-305.	1.6	33
268	Development of metalâ€“graphene-filled hybrid composites: Characterization of mechanical, thermal, and electrical properties. Journal of Composite Materials, 2019, 53, 3363-3376.	1.2	15
269	Percolation behavior of electromagnetic interference shielding in polymer/multi-walled carbon nanotube nanocomposites. Composites Science and Technology, 2019, 170, 70-76.	3.8	118
270	Fabricating sea-island structure and co-continuous structure in PMMA/ASA and PMMA/CPE blends: Correlation between impact property and phase morphology. Polymer Testing, 2019, 73, 21-30.	2.3	28

#	Article	IF	Citations
271	Nanocomposite polymeric materials with 3D graphene-based architectures: from design strategies to tailored properties and potential applications. Progress in Polymer Science, 2019, 89, 213-249.	11.8	82
272	Mechanically Enhanced Electrical Conductivity of Polydimethylsiloxane-Based Composites by a Hot Embossing Process. Polymers, 2019, 11, 56.	2.0	19
273	Multiscale finite-element modelling of the electrical conductivity of polyvinylchlorideâ€"nickel composites. Journal of Composite Materials, 2019, 53, 1255-1260.	1.2	2
274	Electrical conductivity of graphene filled PLA/PMMA blends: Experimental investigation and modeling. Polymer Composites, 2019, 40, 704-715.	2.3	14
275	Electrical characteristics of conductive ultrathin bonded wearing course for active deicing and snow melting. International Journal of Pavement Engineering, 2019, 20, 1299-1308.	2.2	12
276	Improved energy density in coreâ€"shell poly(dopamine) coated barium titanate/poly(fluorovinylidene-co-trifluoroethylene) nanocomposite with interfacial polarization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 585, 124091.	2.3	29
277	Materialâ€Based Approaches for the Fabrication of Stretchable Electronics. Advanced Materials, 2020, 32, e1902743.	11.1	243
278	Shape Memory Polymers, Blends and Composites. Advanced Structured Materials, 2020, , .	0.3	17
279	Optical, Electrical, and Magnetic Properties of Shape-Memory Polymers, Polymer Blends, and Composites. Advanced Structured Materials, 2020, , 237-268.	0.3	4
280	Natural sunlight-actuated shape memory materials with reversible shape change and self-healing abilities based on carbon nanotubes filled conductive polymer composites. Chemical Engineering Journal, 2020, 382, 122823.	6.6	60
281	Antimony-doped SnO2 nanoparticles-decorated TiO2 composite with enhanced electrical properties. Functional Materials Letters, 2020, 13, 1951005.	0.7	2
282	Conductivity of Poly(methyl methacrylate)/Polystyrene/Carbon Black and Poly(ethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 307 (English Edition), 2020, 38, 288-297.	2.0	18
283	Improvements on electrical conductivity of the electrospun microfibers using the silver nanoparticles. Journal of Applied Polymer Science, 2020, 137, 48788.	1.3	5
284	Recent progress on flexible and stretchable piezoresistive strain sensors: From design to application. Progress in Materials Science, 2020, 114, 100617.	16.0	267
285	Electrochemical determination of dopamine using a conductive polypyrrole/carbon-coated mesoporous silica composite electrode. Journal of Applied Electrochemistry, 2020, 50, 311-319.	1.5	10
286	Effect of the shear field on the conductive percolated network formation in a nanoparticle filled polymer nanocomposites. Soft Materials, 2020, 18, 128-139.	0.8	2
287	Highly stretchable and sensitive conductive rubber composites with tunable piezoresistivity for motion detection and flexible electrodes. Carbon, 2020, 158, 893-903.	5.4	41
288	Synergistic effect in improving the electrical conductivity in polymer nanocomposites by mixing spherical and rod-shaped fillers. Soft Matter, 2020, 16, 10454-10462.	1.2	2

#	Article	IF	Citations
289	Nanocellulose as a Sustainable Building Block to Construct Eco-Friendly Thermally Conductive Composites. Industrial & Engineering Chemistry Research, 2020, 59, 19465-19484.	1.8	17
290	A new anisotropic thermal conductivity equation for h-BN/polymer composites using finite element analysis. International Journal of Heat and Mass Transfer, 2020, 160, 120157.	2.5	30
291	A stretchable and self-healable organosilicon conductive nanocomposite for a reliable and sensitive strain sensor. Journal of Materials Chemistry C, 2020, 8, 17277-17288.	2.7	19
292	Rational design of nanohybrids for highly thermally conductive polymer composites. Composites Communications, 2020, 21, 100427.	3.3	38
293	â€˜In-Situâ€™ Preparation of Carbonaceous Conductive Composite Materials Based on PEDOT and Biowaste for Flexible Pseudocapacitor Application. Journal of Composites Science, 2020, 4, 87.	1.4	3
294	Laser induced graphene in fiberglass-reinforced composites for strain and damage sensing. Composites Science and Technology, 2020, 199, 108367.	3.8	27
295	Epoxyâ€Polypyrroleâ€Cotton Tertiary Composite with Electroâ€Tunable Stiffness. Macromolecular Materials and Engineering, 2020, 305, 2000310.	1.7	2
296	Enhanced electromagnetic interference shielding and mechanical properties of segregated polymer/carbon nanotube composite via selective microwave sintering. Composites Science and Technology, 2020, 199, 108355.	3.8	50
297	An elegant coupling: Freeze-casting and versatile polymer composites. Progress in Polymer Science, 2020, 109, 101289.	11.8	69
298	Effect of Injection Molding Conditions on Crystalline Structure and Electrical Resistivity of PP/MWCNT Nanocomposites. Polymers, 2020, 12, 1685.	2.0	14
299	Tuning the Piezoresistive Behavior of Poly(Vinylidene Fluoride)/Carbon Nanotube Composites Using Poly(Methyl Methacrylate). ACS Applied Materials & Interfaces, 2020, 12, 43125-43137.	4.0	23
300	3D printed high-performance flexible strain sensors based on carbon nanotube and graphene nanoplatelet filled polymer composites. Journal of Materials Science, 2020, 55, 15769-15786.	1.7	51
301	THz Spectroscopy as a Versatile Tool for Filler Distribution Diagnostics in Polymer Nanocomposites. Polymers, 2020, 12, 3037.	2.0	3
302	Room-temperature synthesis and CO₂-gas sensitivity of bismuth oxide nanosensors. RSC Advances, 2020, 10, 17217-17227.	1.7	26
303	Fabrication and Study of a Composite Material Based on a Glass-Cloth with a Metal Oxide Coating. Protection of Metals and Physical Chemistry of Surfaces, 2020, 56, 125-133.	0.3	0
304	Electrical conductivity of polystyrene/poly(n-alkyl methacrylate)s / carbon nanotube ternary composite casting films. Journal of Polymer Research, 2020, 27, 1.	1.2	8
305	Study and Characterization of the Dielectric Behavior of Low Linear Density Polyethylene Composites Mixed with Ground Tire Rubber Particles. Polymers, 2020, 12, 1075.	2.0	24
306	Percolation of polydisperse nanorods in polymer nanocomposites: Insights from molecular dynamics simulation. Composites Science and Technology, 2020, 196, 108208.	3.8	6

#	Article	IF	Citations
307	High-temperature polymer conductors with self-assembled conductive pathways. Composites Part B: Engineering, 2020, 192, 107989.	5.9	13
308	Ultralow-threshold and efficient EMI shielding PMMA/MWCNTs composite foams with segregated conductive network and gradient cells. EXPRESS Polymer Letters, 2020, 14, 685-703.	1.1	15
309	Perpendicular and Inâ€Plane Conductivity of Poly(methyl methacrylate) Composite Films Filled with Carbonâ€Based Fillers Prepared from Solution Casting Process. Macromolecular Materials and Engineering, 2020, 305, 2000107.	1.7	3
310	Tailoring surface anisotropy in ternary NiC/glass/epoxy laminates by magnetic field. Materials Today Communications, 2020, 23, 101064.	0.9	0
311	Polyethylene Composites with Segregated Carbon Nanotubes Network: Low Frequency Plasmons and High Electromagnetic Interference Shielding Efficiency. Materials, 2020, 13, 1118.	1.3	25
312	Design of functional composite and all-inorganic nanostructured materials via infiltration of polymer templates with inorganic precursors. Journal of Materials Chemistry C, 2020, 8, 10604-10627.	2.7	29
313	Antistatic Fibers for High-Visibility Workwear: Challenges of Melt-Spinning Industrial Fibers. Materials, 2020, 13, 2645.	1.3	10
314	Synthesis and characterization of polyaniline-nickel chloride composites. Journal of Physics: Conference Series, 2020, 1531, 012002.	0.3	2
315	Highly improved <scp>PP</scp> / <scp>CNTs</scp> sheet prepared by tailoring crystallization morphology through solidâ€phase die drawing and multilayer hot compression. Polymer Crystallization, 2020, 3, e10137.	0.5	1
316	Sustainable and self-regulating out-of-oven manufacturing of FRPs with integrated multifunctional capabilities. Composites Science and Technology, 2020, 190, 108032.	3.8	22
317	Efficient construction of boron nitride network in epoxy composites combining reaction-induced phase separation and three-roll milling. Composites Part B: Engineering, 2020, 198, 108232.	5.9	22
318	Bi-directional high thermal conductive epoxy composites with radially aligned boron nitride nanosheets lamellae. Composites Science and Technology, 2020, 198, 108322.	3.8	57
319	Controllable distribution of conductive particles in polymer blends via a bilayer structure design: a strategy to fabricate shape-memory composites with tunable electro-responsive properties. Journal of Materials Chemistry C, 2020, 8, 9593-9601.	2.7	12
320	Simultaneously improved electromagnetic interference shielding and flame retarding properties of poly (butylene succinate)/thermoplastic polyurethane blends by constructing segregated flame retardants and multi-walled carbon nanotubes double network. Composites Part A: Applied Science and Manufacturing, 2020, 137, 106037.	3.8	30
321	Balanced physical properties for thermoplastic silicone vulcanizateâ€based polymer composites containing functional filler. Polymer Composites, 2020, 41, 4307-4317.	2.3	2
322	Ultra-light MXene aerogel/wood-derived porous carbon composites with wall-like â€œmortar/brickâ€• structures for electromagnetic interference shielding. Science Bulletin, 2020, 65, 616-622.	4.3	370
323	Shear induced formation and destruction behavior of conductive networks in nickel/polyurethane composites during strain sensing. Composites Part A: Applied Science and Manufacturing, 2020, 130, 105757.	3.8	22
324	A Low-Cost Paper Glucose Sensor with Molecularly Imprinted Polyaniline Electrode. Sensors, 2020, 20, 1098.	2.1	20

#	Article	IF	Citations
325	Facile fabrication of polyaniline films with hierarchical porous networks for enhanced electrochemical activity. Journal of Industrial and Engineering Chemistry, 2020, 86, 81-89.	2.9	4
326	Polyaniline/carbon nanotube hybrids modified with ionic liquids as anticorrosive additive in epoxy coatings. Progress in Organic Coatings, 2020, 143, 105598.	1.9	28
327	Highly electro-responsive plasticized PVC/FMWCNTs soft composites: A novel flex actuator with functional characteristics. European Polymer Journal, 2020, 126, 109556.	2.6	17
328	Facile Fabrication of Multifunctional Poly(ethylene-co-octene)/Carbon Nanotube Foams Based on Tunable Conductive Network. Industrial & Engineering Chemistry Research, 2020, 59, 1934-1943.	1.8	33
329	Enhancing thermal conductivity via conductive network conversion from high to low thermal dissipation in polydimethylsiloxane composites. Journal of Materials Chemistry C, 2020, 8, 3463-3475.	2.7	85
330	Fabrication of Thermoplastic Polyurethane/Polycaprolactone Multilayered Composites with Confined Distribution of MWCNTs for Achieving Tunable Thermo- and Electro-Responsive Shape-Memory Performances. Industrial & Engineering Chemistry Research, 2020, 59, 2977-2987.	1.8	16
331	Sustainable conducting polymer composites: study of mechanical and tribological properties of natural fiber reinforced PVA composites with carbon nanofillers. Polymer-Plastics Technology and Materials, 2020, 59, 1088-1099.	0.6	23
332	Carbon fiber-based polymer composite via ceramization toward excellent electromagnetic interference shielding performance and high temperature resistance. Composites Part A: Applied Science and Manufacturing, 2020, 131, 105769.	3.8	30
333	Enhanced interfacial polarization in poly(vinylidene fluoride-chlorotrifluoroethylene) nanocomposite with parallel boron nitride nanosheets. Nanotechnology, 2020, 31, 165703.	1.3	16
334	Study on the effect of tailoring the segmented PU molecules on electrically conductive properties and percolation threshold of PU/MWCNTs nanocomposites. Synthetic Metals, 2020, 261, 116300.	2.1	7
335	Flexible and Giant Terahertz Modulation Based on Ultra-Strain-Sensitive Conductive Polymer Composites. ACS Applied Materials & Interfaces, 2020, 12, 9790-9796.	4.0	21
336	The superior mechanical and physical properties of nanocarbon reinforced bulk composites achieved by architecture design â€“ A review. Progress in Materials Science, 2020, 113, 100672.	16.0	163
337	Preparation of high-strength and lightweight microcellular polysulfone foam with a segregated CNT network for excellent electromagnetic shielding. RSC Advances, 2020, 10, 11994-12003.	1.7	20
338	Bioâ€Inspired Nanospiky Metal Particles Enable Thin, Flexible, and Thermoâ€Responsive Polymer Nanocomposites for Thermal Regulation. Advanced Functional Materials, 2020, 30, 1910328.	7.8	13
339	Advances in Responsively Conductive Polymer Composites and Sensing Applications. Polymer Reviews, 2021, 61, 157-193.	5.3	103
340	Designs of conductive polymer composites with exceptional reproducibility of positive temperature coefficient effect: A review. Journal of Applied Polymer Science, 2021, 138, 49677.	1.3	26
341	Electrical properties in reinforced polymer composites. , 2021, , 131-140.		0
342	Boosting electrical and piezoresistive properties of polymer nanocomposites via hybrid carbon fillers: A review. Carbon, 2021, 173, 1020-1040.	5.4	71

#	Article	IF	Citations
343	Economical conductive graphiteâ€filled polymer composites via adjustable segregated structures: Construction, low percolation threshold, and positive temperature coefficient effect. Journal of Applied Polymer Science, 2021, 138, 50295.	1.3	12
344	Shape memory materials with reversible shape change and self-healing abilities: A review. Materials Today: Proceedings, 2021, 44, 4563-4568.	0.9	6
345	Nanocellular poly(ether-block-amide)/MWCNT nanocomposite films fabricated by stretching-assisted microcellular foaming for high-performance EMI shielding applications. Journal of Materials Chemistry C, 2021, 9, 1245-1258.	2.7	53
346	Electrical conductivity and fiber orientation of poly(methyl methacrylate)/carbon fiber composite sheets with various thickness. Polymer Composites, 2021, 42, 548-558.	2.3	13
347	Breakage of carbon nanotube agglomerates within polypropylene matrix by solid phase die drawing. Journal of Applied Polymer Science, 2021, 138, 49742.	1.3	2
348	Enhanced Reproducibility of Positive Temperature Coefficient Effect of CB/HDPE/PVDF Composites with the Addition of Ionic Liquid. Chinese Journal of Polymer Science (English Edition), 2021, 39, 228-236.	2.0	10
349	Effect of interaction between conjugated polymers and nanofillers on sensing properties. , 2021, , 237-263.		0
350	Conductive composite-based tactile sensor. , 2021, , 67-90.		0
351	Achievements and Prospects of Thermoelectric and Hybrid Energy Harvesters for Wearable Electronic Applications. , 2021, , 3-40.		1
352	Sensing Materials: Nanocomposites. , 2023, , 305-315.		1
353	Construction and Mechanism Analysis of a Self-Assembled Conductive Network in DGEBA/PEI/HRGO Nanocomposites by Controlling Filler Selective Localization. Nanomaterials, 2021, 11, 228.	1.9	5
354	Electromagnetic Wave Absorption Polymer Nanocomposites. , 2021, , .		0
355	Recent trends in the applications of thermally expanded graphite for energy storage and sensors â€“ a review. Nanoscale Advances, 2021, 3, 6294-6309.	2.2	46
356	Self-Healing Polymer Nanocomposite Materials by Joule Effect. Polymers, 2021, 13, 649.	2.0	38
357	Dielectric Relaxation Spectroscopy and Synergy Effects in Epoxy/MWCNT/Ni@C Composites. Nanomaterials, 2021, 11, 555.	1.9	6
358	A high Cr (<scp>VI</scp>) absorption efficiency and easy recovery adsorbent: Electrospun polyethersulfone/polydopamine nanofibers. Journal of Applied Polymer Science, 2021, 138, 50642.	1.3	7
359	Laser Transmission Welding of Semi-Crystalline Polymers and Their Composites: A Critical Review. Polymers, 2021, 13, 675.	2.0	24
360	Novel conductive wearing course using a graphite, carbon fiber, and epoxy resin mixture for active de-icing of asphalt concrete pavement. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	1.3	20

#	Article	IF	Citations
362	Effects of ionic liquid types on the tribological, mechanical, and thermal properties of ionic liquid modified graphene/polyimide shape memory composites. High Performance Polymers, 0, , 095400832199676.	0.8	1
363	Microcellular Conductive Carbon Black or Graphene/PVDF Composite Foam with 3D Conductive Channel: A Promising Lightweight, Heatâ€Insulating, and EMIâ€Shielding Material. Macromolecular Materials and Engineering, 2021, 306, 2000759.	1.7	11
364	Development and simplification of a micromechanic model for conductivity of carbon nanotubes-reinforced nanocomposites. Journal of Polymer Research, 2021, 28, 1.	1.2	0
366	Electrical conductivity and rheological properties of carbon black based conductive polymer composites prior to and after annealing. Polymers and Polymer Composites, 0, , 096739112110012.	1.0	2
367	Role of the interface on electron transport in electroâ€conductive polymerâ€matrix composite: A review. Polymer Composites, 2021, 42, 2614-2628.	2.3	20
368	A review of thermoplastic polymer foams for functional applications. Journal of Materials Science, 2021, 56, 11579-11604.	1.7	46
369	Efficient construction and online evaluation of conductive networks within polydimethylsiloxane composites via continuous SCFNA method. Composites Communications, 2021, 24, 100673.	3.3	10
370	Investigating the electrical percolation threshold of ternary composite films with different compatibility between polymer blends. Journal of Polymer Engineering, 2021, 41, 450-457.	0.6	2
371	Evaluation and modeling of electrical conductivity in conductive polymer nanocomposite foams with multiwalled carbon nanotube networks. Chemical Engineering Journal, 2021, 411, 128382.	6.6	59
372	Electro-responsive epoxy-polypyrrole-cotton composites with enhanced flexural strength and water resistance. Materials Research Bulletin, 2021, 137, 111197.	2.7	3
373	Modelling of Anisotropic Electrical Conduction in Layered Structures 3D-Printed with Fused Deposition Modelling. Sensors, 2021, 21, 3710.	2.1	20
374	Multifunctional NR/MWCNTs nanocomposites constructed via combining volume exclusion of SiO2 microspheres with interface reinforcement of tannic acid. European Polymer Journal, 2021, 151, 110424.	2.6	8
375	Recent advances in carbon-based nanomaterials for flame retardant polymers and composites. Composites Part B: Engineering, 2021, 212, 108675.	5.9	110
376	Polypropylene/poly(lactic acid)/carbon nanotube semiâ€biodegradable nanocomposites: The effect of sequential mixing approach and compatibilization on morphology, rheology and electrical conductivity. Journal of Applied Polymer Science, 2021, 138, 51195.	1.3	8
377	Vitrimer chemistry enables epoxy nanocomposites with mechanical robustness and integrated conductive segregated structure for high performance electromagnetic interference shielding. Composites Part B: Engineering, 2021, 215, 108782.	5.9	51
378	Inversion of the Photogalvanic Effect of Conductive Polymers by Porphyrin Dopants. Catalysts, 2021, 11, 729.	1.6	6
379	Enhancement of Electromagnetic Interference Shielding Performance and Wear Resistance of the UHMWPE/PP Blend by Constructing a Segregated Hybrid Conductive Carbon Blackâ€"Polymer Network. ACS Omega, 2021, 6, 15078-15088.	1.6	20
380	Construction, mechanism and prospective of conductive polymer composites with multiple interfaces for electromagnetic interference shielding: A review. Carbon, 2021, 177, 377-402.	5.4	405

#	Article	IF	Citations
381	Bi-continuous conductive network induced by in-situ phase separation in epoxy composites with enhanced electromagnetic interference shielding performance. Reactive and Functional Polymers, 2021, 164, 104918.	2.0	6
382	An anchoring array assembly method for enhancing the electrical conductivity of composites of polypropylene and hybrid fillers. Composites Science and Technology, 2021, 211, 108846.	3.8	6
383	Polycarbonate based multifunctional self-sensing 2D and 3D printed structures for aeronautic applications. Smart Materials and Structures, 2021, 30, 085032.	1.8	12
384	The influence of the characteristics of polyethylene on thermoelectric properties of their composites with black carbon. Plasticheskie Massy: Sintez Svojstva Pererabotka Primenenie, 2021, , 18-23.	0.1	2
385	Creep behavior of polymer nanocomposites: Insights from molecular dynamics simulation. Polymer, 2021, 228, 123895.	1.8	7
386	Polymerâ€/Ceramicâ€based Dielectric Composites for Energy Storage and Conversion. Energy and Environmental Materials, 2022, 5, 486-514.	7.3	66
388	Comparison of Three Interfacial Conductive Networks Formed in Carbon Black-Filled PA6/PBT Blends. Polymers, 2021, 13, 2926.	2.0	5
389	Low percolation conductive graphite flakes-filled poly(urethane-imide) composites with high thermal stability via imidization self-foaming structure. Materials Today Chemistry, 2021, 21, 100516.	1.7	3
390	Highly Tunable Piezoresistive Behavior of Carbon Nanotube-Containing Conductive Polymer Blend Composites Prepared from Two Polymers Exhibiting Crystallization-Induced Phase Separation. ACS Applied Materials & Interfaces, 2021, 13, 43333-43347.	4.0	8
391	Electromagnetic Shielding Effectiveness of an Absorber-Like Carbonyl Iron-FeNi Double-Layer Composite. Journal of Materials Engineering and Performance, 2022, 31, 643-650.	1.2	2
392	A highly stretchable and room temperature autonomous self-healing supramolecular organosilicon elastomer with hyperbranched structure. European Polymer Journal, 2021, 156, 110618.	2.6	20
393	Tracing evolutions in electro-activated shape memory polymer composites with 4D printing strategies: A systematic review. Composites Part A: Applied Science and Manufacturing, 2021, 147, 106444.	3.8	55
394	Transfer printed laser induced graphene strain gauges for embedded sensing in fiberglass composites. Composites Part B: Engineering, 2021, 219, 108932.	5.9	24
395	Endowing Acceptable Mechanical Properties of Segregated Conductive Polymer Composites with Enhanced Filler-Matrix Interfacial Interactions by Incorporating High Specific Surface Area Nanosized Carbon Black. Nanomaterials, 2021, 11, 2074.	1.9	5
396	Relationship between microstructure evolution and properties enhancement of carbon nanotubesâ€filled polybutylene terephthalate/polypropylene blends induced by thermal annealing. Journal of Applied Polymer Science, 2022, 139, 51689.	1.3	2
397	Efficient and cost-effective hybrid composite materials based on thermoplastic polymer and recycled graphite. Chemical Engineering Journal, 2022, 430, 132667.	6.6	19
398	Controlled Vertically Aligned Structures in Polymer Composites: Natural Inspiration, Structural Processing, and Functional Application. Advanced Materials, 2021, 33, e2103495.	11.1	62
399	Multifunctional wax based conductive and piezoresistive nanocomposites for sensing applications. Composites Science and Technology, 2021, 213, 108892.	3.8	11

#	Article	IF	Citations
400	A novel method to incorporate functional filler into TPSiV for balanced physical properties. Composites Science and Technology, 2021, 213, 108925.	3.8	14
401	Enhanced thermal conduction of functionalized graphene nanoflake/polydimethylsiloxane composites via thermoluminescence strategy. Composites Science and Technology, 2021, 213, 108940.	3.8	21
402	Mechanically strong, healable, and reprocessable conductive carbon black/silicone elastomer nanocomposites based on dynamic imine bonds and sacrificial coordination bonds. Composites Part B: Engineering, 2021, 223, 109123.	5.9	29
403	A novel interpenetrating segregated functional filler network structure for ultra-high electrical conductivity and efficient EMI shielding in CPCs containing carbon nanotubes. Materials Today Physics, 2021, 21, 100483.	2.9	18
404	Tough, stretchable and self-healing C-MXenes/PDMS conductive composites as sensitive strain sensors. Composites Science and Technology, 2021, 216, 109042.	3.8	37
405	Low percolation behavior of HDPE/CNT nanocomposites for EMI shielding application: Random distribution to segregated structure. Synthetic Metals, 2021, 281, 116900.	2.1	16
406	Eco-friendly bioenergy: New approaches for the effective treatment of tannery fleshings. Environmental Challenges, 2021, 5, 100249.	2.0	2
407	Emerging hybrids derived from polythiophene and graphene. , 2021, , 129-156.		0
408	Investigation of electrical properties of hybrid nanocomposites containing different fillers on pressure sensor applications under different loading. Journal of Composite Materials, 2021, 55, 2329-2337.	1.2	6
409	In-situ co-continuous conductive network induced by carbon nanotubes in epoxy composites with enhanced electromagnetic interference shielding performance. Chemical Engineering Journal, 2020, 398, 125559.	6.6	46
410	Polymer composites with enhanced thermal conductivity via oriented boron nitride and alumina hybrid fillers assisted by 3-D printing. Ceramics International, 2020, 46, 20810-20818.	2.3	64
411	Electron structure in modified BaTiO ₃ /poly(vinylidene fluoride) nanocomposite with high dielectric property and energy density. IET Nanodielectrics, 2019, 2, 70-77.	2.0	14
412	Role of polymeric composite in civil engineering applications: a review. Polymer-Plastics Technology and Materials, 2020, 59, 1023-1040.	0.6	11
413	Preparation and vapor-sensitive properties of hydroxyl-terminated polybutadiene polyurethane conductive polymer nanocomposites based on polyaniline-coated multiwalled carbon nanotubes. Nanotechnology, 2020, 31, 195504.	1.3	19
414	Enhancement of the performance of cadmium sulfide quantum dot solar cells using a platinum-polyaniline counter electrode and a silver nanoparticle-sensitized photoanode (erratum). Journal of Nanophotonics, 2017, 11, 039901.	0.4	1
415	Highly Fluorescent Conducting Polymer Hybrid Materials Based on Polyaniline-Polyethylene Glycol-Arsenic Sulphide. International Journal of Organic Chemistry, 2016, 06, 55-64.	0.3	4
416	Development of Conductive Hydrogels for Fabricating Flexible Strain Sensors. Small, 2022, 18, e2101518.	5.2	188
417	Polymeric materials for solar water purification. Journal of Polymer Science, 2021, 59, 3084-3099.	2.0	21

#	Article	IF	Citations
418	Fabrication of Openâ€Cell Microcellular Acrylonitrile Butadiene Styrene Composite Foams with Enhanced Electrical Conductivity and Highâ€Performance Electromagnetic Interference Shielding. Advanced Engineering Materials, 2022, 24, 2101020.	1.6	1
419	Selective localization of carbon nanotubes and its effect on the structure and properties of polymer blends. Progress in Polymer Science, 2021, 123, 101471.	11.8	55
420	Sensing parameters as a function of the chemical structure and thickness of two poly(styrene)-type based composites with carbon black. Superficies Y Vacio, 2018, 31, 10-15.	0.2	0
421	Stretchable and ultrasensitive strain sensor from carbon nanotube-based composite with significantly enhanced electrical and sensing properties by tailoring segregated conductive networks. Composites Communications, 2022, 29, 100987.	3.3	24
422	Ternary Nanocomposite System Composing of Graphene Nanoplatelet, Cellulose Nanofiber and Jatropha Oil Based Waterborne Polyurethane: Characterizations, Mechanical, Thermal Properties and Conductivity. Polymers, 2021, 13, 3740.	2.0	2
423	3D printing of free-standing Ti3C2Tx/PEO architecture for electromagnetic interference shielding. Polymer, 2021, 236, 124312.	1.8	13
424	The Effect of Graphene Oxide Dispersion on Structure-Property Relationships in Graphene-Based Polymer Nanocomposites. Journal of Nano Research, 0, 65, 97-121.	0.8	4
425	Facile preparation of high-performance and multifunctional PVC-based nanocomposites with segregated structure achieved by volume repulsion and toughening effects of ABS. European Polymer Journal, 2021, 161, 110867.	2.6	4
426	Modeling of Effective Electrical Conductivity and Percolation Behavior in Conductive-Polymer Nanocomposites Reinforced with Spherical Carbon Black. Applied Composite Materials, 2022, 29, 695-710.	1.3	13
427	Electromagnetic characteristics of light terahertz materials. , 2020, , .		0
428	A Study on Mechanical Properties of Short Carbon Fiber Reinforced Polycarbonate via an Injection Molding Process. Sensor Letters, 2020, 18, 801-805.	0.4	0
429	Polymer/graphene nanocomposites as versatile platforms for energy and electronic devices. , 2022, , 173-196.		0
430	Effects of POE and Carbon Black on the PTC Performance and Flexibility of High-Density Polyethylene Composites. Advances in Polymer Technology, 2021, 2021, 1-11.	0.8	8
431	Conductive Polymer Composites for Soft Tactile Sensors. Macromolecular Research, 2021, 29, 761-775.	1.0	15
432	Synergistic effect of multiscale BNs/CNT and 3D melamine foam on the thermal conductive of epoxy resin. Composites Communications, 2022, 29, 101044.	3.3	19
433	Modified MXene-doped conductive organosilicon elastomer with high-stretchable, toughness, and self-healable for strain sensors. Composite Structures, 2022, 282, 115071.	3.1	14
434	Constructing segregated thermoset composite via Pickering emulsion and dynamic polythiourethanes. Composites Science and Technology, 2022, 218, 109215.	3.8	9
435	Preparation of highly conductive composites with interfacial regulation based on polyamide-66 and continuous carbon fiber. Materials Letters, 2022, 311, 131552.	1.3	1

#	Article	IF	Citations
436	A novel contemporary molecular imprinting technique for non-enzymatic selective glucose detection. Optics and Laser Technology, 2022, 148, 107786.	2.2	7
437	Recent Advances in Graphene-Based Polymer Nanocomposites and Foams for Electromagnetic Interference Shielding Applications. Industrial & Engineering Chemistry Research, 2022, 61, 1545-1568.	1.8	25
438	Cephalopods-inspired Repairable MWCNTs/PDMS Conductive Elastomers for Sensitive Strain Sensor. Chinese Journal of Polymer Science (English Edition), 2022, 40, 384-393.	2.0	14
439	Advances in Computational Intelligence of Polymer Composite Materials: Machine Learning Assisted Modeling, Analysis and Design. Archives of Computational Methods in Engineering, 2022, 29, 3341-3385.	6.0	59
440	Preparation of PEEK/MWCNT nanocomposites via MWCNT-induced interfacial crystallization mediated compatibilization. Composites Science and Technology, 2022, 221, 109298.	3.8	8
441	A review on polyvinylidene fluoride polymer based nanocomposites for energy storage applications. Journal of Energy Storage, 2022, 48, 103788.	3.9	42
442	Comparison between randomly distributed structure and 3D segregated structure in chlorinated polyethylene/MWCNT composites: electrical conductivity, mechanical property, flame resistance and rheological property. Composites Science and Technology, 2022, 221, 109338.	3.8	11
443	Electrical and electromagnetic interference shielding properties of GNP-NiFe hybrid composite with segregate structure of conductive networks. Journal of Applied Physics, 2022, 131, .	1.1	5
444	The controlled in-situ growth of silver-halloysite nanostructure via interaction bonds to reinforce a novel polybenzoxazine composite resin and improve its antifouling and anticorrosion properties. Composites Science and Technology, 2022, 221, 109312.	3.8	6
445	Simultaneous use of physical and chemical dispersants for electrical conductivity enhancement in polyamide 6/carbon nanotube/conductive carbon black hybrid nanocomposites. Polymer-Plastics Technology and Materials, 2022, 61, 263-275.	0.6	5
446	Low Percolation Threshold and Enhanced Electromagnetic Interference Shielding in Polyoxymethylene/Carbon Nanotube Nanocomposites with Conductive Segregated Networks. Industrial & Engineering Chemistry Research, 2022, 61, 3962-3972.	1.8	10
447	Dielectric Properties of Hybrid Polyethylene Composites Containing Cobalt Nanoparticles and Carbon Nanotubes. Materials, 2022, 15, 1876.	1.3	4
448	Electrically Conductive and All-Weather Materials from Waste Cross-Linked Polyethylene Cables for Electromagnetic Interference Shielding. Industrial & Engineering Chemistry Research, 2022, 61, 3610-3619.	1.8	7
449	Determining electrical percolation threshold of randomly distributed conductor materials in polymer composites via pathfinding algorithms. Composites Science and Technology, 2022, 224, 109404.	3.8	2
450	Remarkable microwave heating performance of MWCNTs/polypropylene composites verified by electromagnetic-thermal coupling experiment and simulation. Composites Science and Technology, 2022, 223, 109428.	3.8	19
451	Vertically aligned carbon nanotubes/graphene/cellulose nanofiber networks for enhancing electrical conductivity and piezoresistivity of silicone rubber composites. Composites Science and Technology, 2022, 222, 109366.	3.8	11
452	Electromagnetic evaluation of radar absorbing materials based on conducting polypyrrole and <scp>organicâ€“inorganic</scp> nanocomposite of polypyrrole/kaolinite. Journal of Applied Polymer Science, 2022, 139, 52023.	1.3	6
453	â€œToolboxâ€•for the Processing of Functional Polymer Composites. Nano-Micro Letters, 2022, 14, 35.	14.4	30

#	Article	IF	Citations
454	Magnetic Manipulation of Nanowires for Engineered Stretchable Electronics. ACS Nano, 2022, 16, 837-846.	7.3	8
455	Carbonization of Graphene-Doped Isocyanate-Based Polyimide Foams to Achieve Carbon Foams with Excellent Electromagnetic Interference Shielding Performance. Materials, 2021, 14, 7551.	1.3	11
456	Cancer Biomarker Methylmalonic Acid Detection by Molecularly Imprinted Polyaniline Paper Sensor. , 2022, 16, .		0
457	Enhanced thermoelectric performance by constructing PEDOT:PSS/graphene quantum dots/single-walled carbon nanotube multilayer films. Journal of Alloys and Compounds, 2022, 911, 164998.	2.8	12
458	Poly(N-Isopropylacrylamide) Based Electrically Conductive Hydrogels and Their Applications. Gels, 2022, 8, 280.	2.1	9
459	Migration mechanism of carbon nanotubes and matching viscosity-dependent morphology in Co-continuous Poly(lactic acid)/Poly(Îµ-caprolactone) blend: Towards electromagnetic shielding enhancement. Polymer, 2022, 252, 124963.	1.8	37
460	Bioinspired Strain Sensor Using Multiwalled Carbon Nanotube/Polyvinyl Butyral/Nylon Cloth for Wireless Sensing Applications. IEEE Sensors Journal, 2022, 22, 12664-12672.	2.4	5
461	Conductive polycarbonate composites prepared by a ternary polymer blend approach involving seaâ€islandâ€type interfacial carbon black networks. Journal of Applied Polymer Science, 2022, 139, .	1.3	1
462	Recent progress in solar photothermal steam technology for water purification and energy utilization. Chemical Engineering Journal, 2022, 448, 137603.	6.6	53
463	Study on carbon matrix composite bipolar plates with balance of conductivity and flexural strength. Chinese Chemical Letters, 2023, 34, 107616.	4.8	4
464	Excellent positive temperature coefficient behavior and electrical reproducibility of HDPE/(TiC-CB) composites. European Polymer Journal, 2022, 175, 111334.	2.6	5
465	Synthesize Structural, Dielectric, and Optical Properties of Phosphorus Pentasulfide Modified Co-Polyurethane for Electrical Applications. SSRN Electronic Journal, 0, , .	0.4	0
466	A short review on the synthesis and advance applications of polyaniline hydrogels. RSC Advances, 2022, 12, 19122-19132.	1.7	19
467	Graphene fibre film/polydimethylsiloxane nanocomposites for high-performance electromagnetic interference shielding. Nanoscale Advances, 0, , .	2.2	0
468	Conductive and Semiconductive Nanocompositeâ€Based Hydrogels for Cardiac Tissue Engineering. Advanced Healthcare Materials, 2022, 11, .	3.9	22
469	Recent progress on multifunctional electromagnetic interference shielding polymer composites. Journal of Materials Science and Technology, 2023, 134, 106-131.	5.6	82
470	A state-of-the-art review on potential applications of natural fiber-reinforced polymer composite filled with inorganic nanoparticle. Composites Part C: Open Access, 2022, 9, 100298.	1.5	38
471	Development of electroactive materials-based immunosensor towards early-stage cancer detection. Coordination Chemistry Reviews, 2022, 471, 214723.	9.5	25

#	Article	IF	Citations
472	Experiment and theory study on the electrical property of MWCNT filled thermoplastic polyurethane bilayer composites with tunable layer thickness ratios. Polymer Testing, 2022, 115, 107749.	2.3	1
473	Effect of chalcone moiety on AC conductance of Metal Oxide Nano Composite doped thin polymer film. Smart Science, 2023, 11, 371-379.	1.9	0
474	Conductivity Prediction Method of Carbon Nanotube Resin Composites Considering the Quantum Tunnelling Effect. Materials, 2022, 15, 5982.	1.3	0
475	The Effect of Carbon/Oxygen Ratio upon Structure-Property Relationships in Polymer/Graphene Nanocomposites. Nano Hybrids and Composites, 0, 37, 59-78.	0.8	1
476	Conductive Hydrogels Based on Industrial Lignin: Opportunities and Challenges. Polymers, 2022, 14, 3739.	2.0	17
477	Continuous film casting of polycarbonate/singleâ€walled carbon nanotubes composites with ultrasoundâ€assisted twinâ€screw extruder: Effect of screw configuration. Journal of Applied Polymer Science, 0, , .	1.3	0
478	Migration of Electroconductive Carbon Nanoparticles in Polymer Composites Melts. Macromolecular Symposia, 2022, 405, 2100236.	0.4	0
479	Direct Chemical Oxidative Polymerization of Polymelamine and its Copolymerization with Aniline for Hydrogel Supercapacitor Electrodes. Journal of the Electrochemical Society, 2022, 169, 100543.	1.3	0
480	Fe3O4 uniformly decorated reduced graphene oxide aerogel for epoxy nanocomposites with high EMI shielding performance. Composites Communications, 2022, 36, 101391.	3.3	10
481	Unified modeling and experimental realization of electrical and thermal percolation in polymer composites. Applied Physics Reviews, 2022, 9, .	5.5	4
482	Graphene Reinforced Polymer Matrix Nanocomposites: Fabrication Method, Properties and Applications. , 0, , .		1
483	Design of a stable and porous MF/Ti3C2Tx/PEG composite for the integration of electromagnetic interference shielding and thermal management. Composites Part A: Applied Science and Manufacturing, 2023, 165, 107333.	3.8	9
484	Great new generation carbon microsphere-based composites: Facile synthesis, properties and their application in piezo-electric energy harvesting. Applied Surface Science, 2023, 613, 156078.	3.1	8
485	Enhanced reproducibility of positive temperature coefficient effect of TPO/HDPE blends via elastic crosslinking. Materials Today Communications, 2023, 34, 105078.	0.9	2
486	Dielectric, AC Conductance of Chalcone Moiety, Metal Oxide Nanocomposite Doped Thin Polymer Film: Synthesis and Characterization. Asian Journal of Chemistry, 2022, 34, 3132-3144.	0.1	0
487	Optimization of Electrical, Dielectric, and Electromagnetic Response in Nanocomposite Foam by Balancing Carbon Nanotube Restricted Orientation and Selective Distribution. Industrial & Engineering Chemistry Research, 2022, 61, 17499-17511.	1.8	6
488	Properties of polyamide 6/multiwalled carbon nanotubes composites: The influence of processing methods. Journal of Applied Polymer Science, 2023, 140, .	1.3	2
489	Influence of mechanical blending method and consolidation temperature on electrical properties of the prepared graphene nanoplatelet/UHMWPE composite. Journal of Polymer Research, 2023, 30, .	1.2	3

#	Article	IF	Citations
490	Graphene wrapped hollow glass beads for polymer composites: From thermal insulators to conductors. Composites Science and Technology, 2023, 233, 109890.	3.8	3
491	Polymer-based wearable nano-composite sensors: a review. International Journal of Polymer Analysis and Characterization, 2023, 28, 156-191.	0.9	2
492	Creating poly(lactic acid)/carbon nanotubes/carbon black nanocomposites with high electrical conductivity and good mechanical properties by constructing a segregated double network with a low content of hybrid nanofiller. Advanced Composites and Hybrid Materials, 2023, 6, .	9.9	63
493	Acrylonitrile Butadiene Styrene-Based Composites with Permalloy with Tailored Magnetic Response. Polymers, 2023, 15, 626.	2.0	3
494	Thermally conductive polymer composites. , 2023, , 149-196.		0
495	Processing methods for conductive polymer composite bipolar plates: Effect on plate quality and performance. Fuel Cells, 2023, 23, 136-160.	1.5	4
496	Influence of mold cavity thickness on electrical, morphological and thermal properties of polypropylene/carbon micromoldings. International Polymer Processing, 2023, .	0.3	0
497	Polymer composites for strain sensors. , 2023, , 381-404.		0
498	Synthesis of Novel Conductive Nanocomposites Based on Polyaniline and Poly(anilineâ€“co-melamine) Grafted on Tragacanth. Russian Journal of Applied Chemistry, 2022, 95, 1448-1458.	0.1	0
499	Engineering Smart Composite Hydrogels for Wearable Disease Monitoring. Nano-Micro Letters, 2023, 15, .	14.4	49
500	Polyvinyl Alcohol, Chitosan Polymer Film Containing Chalcone, Metal Oxide Nanocomposite: Synthesis Characterization and Electrical Properties. Chemistry Africa, 2023, 6, 2071-2085.	1.2	1
501	Multilayered Composites with Carbon Nanotubes for Electromagnetic Shielding Application. Polymers, 2023, 15, 1053.	2.0	4
502	Dendritic Structure-Inspired Coating Strategy for Stable and Efficient Solar Evaporation of Salinity Brine. ACS Sustainable Chemistry and Engineering, 2023, 11, 3882-3895.	3.2	6
503	Constructing <scp>highâ€efficiency</scp> microwave shielding networks in <scp>multiâ€walled</scp> carbon nanotube/poly(lµâ€caprolactone) composites by adding carbon black and graphene <scp>nanoâ€plates</scp>. Polymer International, 2023, 72, 619-628.	1.6	14
504	Recent Advances in Multicomponent Organic Composite Thermoelectric Materials. Advanced Electronic Materials, 2023, 9, .	2.6	6
505	Bioinspired Stretchable MXene Deformation-Insensitive Hydrogel Temperature Sensors for Plant and Skin Electronics. Research, 2023, 6, .	2.8	2
506	Research of NBR/G@Fe3O4 electromagnetic shielding composites. Journal of Materials Science: Materials in Electronics, 2023, 34, .	1.1	0
507	Shape memory polymer-based thermal-responsive circuit switches. Journal of Materials Chemistry C, 2023, 11, 6276-6289.	2.7	3

#	Article	IF	Citations
512	Quasi-SMILES-Based Mathematical Model for the Prediction of Percolation Threshold for Conductive Polymer Composites. Challenges and Advances in Computational Chemistry and Physics, 2023, , 211-239.	0.6	0
513	Fabrication and Morphology of Composites Based on Conducting Polymers. ACS Symposium Series, 0, , 29-49.	0.5	1
517	Novel PTC Composites for Temperature Sensors (and Related Applications). , 0, , .		0
523	Research progress of layered PVDF-based nanodielectric energy storage characteristics. Polymer Bulletin, 0, , .	1.7	1
534	Structure driven piezoresistive performance design for rubbery composites-based sensors and application prospect: a review. Acta Mechanica Sinica/Lixue Xuebao, 2024, 40, .	1.5	1
551	Elastomeric nanocomposite foams for electromagnetic interference shielding. , 2024, , 91-134.		0