Thermal conductivity of polymer-based composites: Fu

Progress in Polymer Science

59, 41-85

DOI: 10.1016/j.progpolymsci.2016.03.001

Citation Report

#	Article	IF	Citations
2	Thermodynamics of stress-strain and thermal state of the metallopolymer tribosystems elements. , 2016, , .		0
3	Thermal conductivity enhancement of laser induced graphene foam upon P3HT infiltration. Applied Physics Letters, 2016, 109, .	1.5	24
4	Formation of thermally conductive networks in isotactic polypropylene/hexagonal boron nitride composites via â€œBridge Effectâ€•of multi-wall carbon nanotubes and graphene nanoplatelets. RSC Advances, 2016, 6, 98571-98580.	1.7	29
5	Decoration of defect-free graphene nanoplatelets with alumina for thermally conductive and electrically insulating epoxy composites. Composites Science and Technology, 2016, 137, 16-23.	3.8	110
6	Interfacial Engineering of Silicon Carbide Nanowire/Cellulose Microcrystal Paper toward High Thermal Conductivity. ACS Applied Materials & Interfaces, 2016, 8, 31248-31255.	4.0	139
7	Effect of processing conditions on the thermal and electrical conductivity of poly (butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 119, 124-132.	3.3	30
8	Expanded graphite/polydimethylsiloxane composites with high thermal conductivity. Journal of Applied Polymer Science, 2017, 134, .	1.3	26
9	Morphology and properties evolution upon ring-opening polymerization during extrusion of cyclic butylene terephthalate and graphene-related-materials into thermally conductive nanocomposites. European Polymer Journal, 2017, 89, 57-66.	2.6	7
10	Dispersion and network formation of graphene platelets in polystyrene composites and the resultant conductive properties. Composites Part A: Applied Science and Manufacturing, 2017, 96, 89-98.	3.8	51
11	Unveiling the impact of nanoparticle size dispersity on the behavior of polymer nanocomposites. Polymer, 2017, 113, 92-104.	1.8	32
12	In situ construction of pompon-like hydroxyapatite hybrid via interfacial self-assembly in polypropylene matrix. Composites Science and Technology, 2017, 142, 246-252.	3.8	13
13	In situ formation of a cellular graphene framework in thermoplastic composites leading to superior thermal conductivity. Journal of Materials Chemistry A, 2017, 5, 6164-6169.	5.2	149
14	Breaking through the Solid/Liquid Processability Barrier: Thermal Conductivity and Rheology in Hybrid Grapheneâ€“Graphite Polymer Composites. ACS Applied Materials & Interfaces, 2017, 9, 7556-7564.	4.0	51
15	A Combination of Boron Nitride Nanotubes and Cellulose Nanofibers for the Preparation of a Nanocomposite with High Thermal Conductivity. ACS Nano, 2017, 11, 5167-5178.	7.3	407
16	Thermal transmittance in graphene based networks for polymer matrix composites. International Journal of Thermal Sciences, 2017, 117, 98-105.	2.6	26
17	A novel h-BNâ€“RGO hybrids for epoxy resin composites achieving enhanced high thermal conductivity and energy density. RSC Advances, 2017, 7, 23355-23362.	1.7	50
18	A facile method to prepare flexible boron nitride/poly(vinyl alcohol) composites with enhanced thermal conductivity. Composites Science and Technology, 2017, 149, 41-47.	3.8	170
19	Enhanced dielectric permittivity and thermal conductivity of hexagonal boron nitride/poly(arylene) Tj ETQq1 1 0.784314 rgBT /Overlo International, 2017, 43, 12109-12119.	2.3	41

#	Article	IF	Citations
20	Developing heat conduction pathways through short polymer chains in a hydrogen bonded polymer system. Composites Science and Technology, 2017, 148, 97-105.	3.8	49
21	Preparation of Highly Thermally Conductive Polymer Composite at Low Filler Content via a Self-Assembly Process between Polystyrene Microspheres and Boron Nitride Nanosheets. ACS Applied Materials & Interfaces, 2017, 9, 19934-19944.	4.0	187
22	Simultaneous improvement in the flame resistance and thermal conductivity of epoxy/Al₂O₃ composites by incorporating polymeric flame retardant-functionalized graphene. Journal of Materials Chemistry A, 2017, 5, 13544-13556.	5.2	148
23	Improved thermal and mechanical properties of aluminium oxide filled epoxy composites by reinforcing milled carbon fiber by partial replacement method. Journal of Materials Science: Materials in Electronics, 2017, 28, 13487-13495.	1.1	9
24	A comparative study on the effect of carbon fillers on electrical and thermal conductivity of a cyanate ester resin. Polymer Testing, 2017, 60, 293-298.	2.3	18
25	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
26	Finite Element Evaluation of Effective Thermal Conductivity of Short Carbon Nano Tubes: A Comparative Study. Defect and Diffusion Forum, 0, 372, 208-214.	0.4	5
27	In situ intercalation polymerization approach to polyamide-6/graphite nanoflakes for enhanced thermal conductivity. Composites Part B: Engineering, 2017, 117, 165-173.	5.9	92
28	Fabrication of Lead Borate Single Crystal Nanosheets for Attenuating Both Neutron and Gamma Radiations. Advanced Engineering Materials, 2017, 19, 1600650.	1.6	11
29	Cellulose Nanofiber Supported 3D Interconnected BN Nanosheets for Epoxy Nanocomposites with Ultrahigh Thermal Management Capability. Advanced Functional Materials, 2017, 27, 1604754.	7.8	546
30	Roll-to-Roll Continuous Manufacturing Multifunctional Nanocomposites by Electric-Field-Assisted â€œZâ€•Direction Alignment of Graphite Flakes in Poly(dimethylsiloxane). ACS Applied Materials & Interfaces, 2017, 9, 919-929.	4.0	57
31	Enhancement of thermal conductivity in polyamide-6/graphene composites via a â€œbridge effectâ€•of silicon carbide whiskers. RSC Advances, 2017, 7, 46306-46312.	1.7	12
32	Highly flexible and stretchable thermally conductive composite film by polyurethane supported 3D networks of boron nitride. Composites Science and Technology, 2017, 152, 94-100.	3.8	56
33	Dense graphene foam and hexagonal boron nitride filled PDMS composites with high thermal conductivity and breakdown strength. Composites Science and Technology, 2017, 152, 243-253.	3.8	105
34	Investigation of Thermal Properties of High-Density Polyethylene/Aluminum Nanocomposites by Photothermal Infrared Radiometry. International Journal of Thermophysics, 2017, 38, 1.	1.0	3
35	Low thermal and high electrical conductivity in hollow glass microspheres covered with carbon nanofiberâ€“polymer composites. Composites Science and Technology, 2017, 151, 211-218.	3.8	51
36	High thermal conductivity in electrostatically engineered amorphous polymers. Science Advances, 2017, 3, e1700342.	4.7	90
37	Vertically Aligned and Interconnected Boron Nitride Nanosheets for Advanced Flexible Nanocomposite Thermal Interface Materials. ACS Applied Materials & Interfaces, 2017, 9, 30909-30917.	4.0	282

#	Article	IF	Citations
38	Composites of epoxy/graphene-modified-diamond filler show enhanced thermal conductivity and high electrical insulation. RSC Advances, 2017, 7, 40761-40766.	1.7	10
39	New BN-epoxy composites obtained by thermal latent cationic curing with enhanced thermal conductivity. Composites Part A: Applied Science and Manufacturing, 2017, 103, 35-47.	3.8	38
40	Synergistic influence from the hybridization of boron nitride and graphene oxide nanosheets on the thermal conductivity and mechanical properties of polymer nanocomposites. Composites Science and Technology, 2017, 151, 252-257.	3.8	37
41	Learning from Natural Nacre: Constructing Layered Polymer Composites with High Thermal Conductivity. ACS Applied Materials & Interfaces, 2017, 9, 33001-33010.	4.0	159
42	Carbon nanotube/reduced graphene oxide hybrid for simultaneously enhancing the thermal conductivity and mechanical properties of styrene -butadiene rubber. Carbon, 2017, 123, 158-167.	5.4	85
43	Three-Dimensional Graphene Foam-Filled Elastomer Composites with High Thermal and Mechanical Properties. ACS Applied Materials & Interfaces, 2017, 9, 26447-26459.	4.0	165
44	Enhanced thermal conductivity of epoxy/Cu-plated carbon fiber fabric composites. Macromolecular Research, 2017, 25, 559-564.	1.0	19
45	Preparation of Boron Nitride Nanosheet/Nanofibrillated Cellulose Nanocomposites with Ultrahigh Thermal Conductivity via Engineering Interfacial Thermal Resistance. Advanced Materials Interfaces, 2017, 4, 1700563.	1.9	93
46	Manipulating Orientation of Silicon Carbide Nanowire in Polymer Composites to Achieve High Thermal Conductivity. Advanced Materials Interfaces, 2017, 4, 1700446.	1.9	43
47	Experimental and theoretical studies on the adjustable thermal properties of epoxy composites with silverâ€plated short fiberglass. Journal of Applied Polymer Science, 2017, 134, 45555.	1.3	10
48	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
49	The fabrication and thermal conductivity of epoxy composites with 3D nanofillers of AgNWs@SiO2&GNPs. Journal of Materials Science: Materials in Electronics, 2017, 28, 16141-16147.	1.1	16
50	Significant Enhancement of Thermal Conductivity in Polymer Composite via Constructing Macroscopic Segregated Filler Networks. ACS Applied Materials & Interfaces, 2017, 9, 29071-29081.	4.0	74
51	Enhancing thermal conductivity and mechanical properties of poly(methyl methacrylate) via adding expanded graphite and injecting water. Composites Part A: Applied Science and Manufacturing, 2017, 102, 228-235.	3.8	27
52	Phonon coupling and transport in individual polyethylene chains: a comparison study with the bulk crystal. Nanoscale, 2017, 9, 18022-18031.	2.8	57
53	Thermal conductivity analysis and applications of nanocellulose materials. Science and Technology of Advanced Materials, 2017, 18, 877-892.	2.8	87
54	Enhanced physicochemical properties of polydimethylsiloxane based microfluidic devices and thin films by incorporating synthetic micro-diamond. Scientific Reports, 2017, 7, 15109.	1.6	39
55	Enhanced thermal conductivity for mesophase pitch-based carbon fiber/modified boron nitride/epoxy composites. Polymer, 2017, 122, 71-76.	1.8	36

#	Article	IF	Citations
56	Highly anisotropic thermal conductivity of discotic nematic liquid crystalline films with homeotropic alignment. Chemical Communications, 2017, 53, 8227-8230.	2.2	23
57	Thermal conductivity of 2D nano-structured graphitic materials and their composites with epoxy resins. 2D Materials, 2017, 4, 042001.	2.0	39
58	A modified Hashin-Shtrikman model for predicting the thermal conductivity of polymer composites reinforced with randomly distributed hybrid fillers. International Journal of Heat and Mass Transfer, 2017, 114, 727-734.	2.5	80
59	Enhanced thermal transport performance for poly(vinylidene fluoride) composites with superfullerene. Fibers and Polymers, 2017, 18, 1180-1186.	1.1	10
60	Improved thermal conductivity and dielectric properties of hBN/PTFE composites via surface treatment by silane coupling agent. Composites Part B: Engineering, 2017, 111, 83-90.	5.9	276
61	Fabrication and thermal conduction mechanism of epoxy/modified SiCNP polymer composites. , 2017, , .		0
62	Effective synthesis of Al<inf>2</inf>O<inf>3</inf>-silver nanoparticles hybrids. , 2017, , .		0
63	Hierarchically interconnected epoxy/BN-SCMC polymer composites with enhanced thermal conductivity. , 2017, , .		0
64	Epoxy thermoset resins with high pristine thermal conductivity. High Voltage, 2017, 2, 139-146.	2.7	70
65	Modeling thermal conductivity of graphene-based nanocomposites. , 2017, , .		2
66	Heat conductive hâ€BN/CTPB/epoxy with enhanced dielectric properties for potential highâ€voltage applications. High Voltage, 2017, 2, 172-178.	2.7	32
67	Thermal Conductivity of Graphene-Polymer Composites: Mechanisms, Properties, and Applications. Polymers, 2017, 9, 437.	2.0	283
68	Computational Thermomechanical Properties of Silicaâ€“Epoxy Nanocomposites by Molecular Dynamic Simulation. Polymers, 2017, 9, 430.	2.0	50
69	Tuning Electrical and Thermal Properties in Epoxy/Glass Composites by Graphene-Based Interphase. Journal of Composites Science, 2017, 1, 12.	1.4	5
70	Effective Assembly of Nano-Ceramic Materials for High and Anisotropic Thermal Conductivity in a Polymer Composite. Polymers, 2017, 9, 413.	2.0	66
71	Boron nitride microsphere/epoxy composites with enhanced thermal conductivity. High Voltage, 2017, 2, 147-153.	2.7	43
72	Vertically Aligned and Interconnected SiC Nanowire Networks Leading to Significantly Enhanced Thermal Conductivity of Polymer Composites. ACS Applied Materials & Interfaces, 2018, 10, 9669-9678.	4.0	183
73	A review on the role of interface in mechanical, thermal, and electrical properties of polymer composites. Advanced Composites and Hybrid Materials, 2018, 1, 415-439.	9.9	139

#	Article	IF	Citations
74	Effect of temperature, crystallinity and molecular chain orientation on the thermal conductivity of polymers: a case study of PLLA. Journal of Materials Science, 2018, 53, 10543-10553.	1.7	79
75	Thermal conductivity and mechanical properties of high density polyethylene composites filled with silicon carbide whiskers modified by cross-linked poly (vinyl alcohol). Journal of Materials Science and Technology, 2018, 34, 2407-2414.	5.6	20
76	Peelable clay/PE nanocomposite seals with ultra-wide peelable heat seal temperature window. Applied Clay Science, 2018, 158, 132-142.	2.6	5
77	Hot-pressing induced orientation of boron nitride in polycarbonate composites with enhanced thermal conductivity. Composites Part A: Applied Science and Manufacturing, 2018, 110, 45-52.	3.8	101
78	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
79	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
80	Synergetic enhancement of thermal conductivity by constructing hybrid conductive network in the segregated polymer composites. Composites Science and Technology, 2018, 162, 7-13.	3.8	141
81	Enhancing the heat and load transfer efficiency by optimizing the interface of hexagonal boron nitride/elastomer nanocomposites for thermal management applications. Polymer, 2018, 143, 1-9.	1.8	132
82	Behaviour of aeronautical polymer composite to flame: A comparative study of thermoset- and thermoplastic-based laminate. Polymer Degradation and Stability, 2018, 152, 105-115.	2.7	28
83	Aluminum oxide particles/silicon carbide whiskersâ€™ synergistic effect on thermal conductivity of high-density polyethylene composites. Iranian Polymer Journal (English Edition), 2018, 27, 339-347.	1.3	6
84	Hydrogen Bond-Regulated Boron Nitride Network Structures for Improved Thermal Conductive Property of Polyamide-imide Composites. ACS Applied Materials & Interfaces, 2018, 10, 16812-16821.	4.0	196
85	Recent progress on thermal conductive and electrical insulating polymer composites. Composites Communications, 2018, 8, 74-82.	3.3	135
86	New epoxy composite thermosets with enhanced thermal conductivity and high T_g obtained by cationic homopolymerization. Polymer Composites, 2018, 39, E1760.	2.3	22
87	Improvement of thermal conductivities for silicone nanocomposite via incorporating poly(Î³-methacryloxypropyltrimethoxy silane) grafted graphene fillers. Chemical Physics Letters, 2018, 693, 121-126.	1.2	10
88	Two-Dimensional Materials for Thermal Management Applications. Joule, 2018, 2, 442-463.	11.7	353
89	Main structural features of graphene materials controlling the transport properties of epoxy resin-based composites. European Polymer Journal, 2018, 101, 56-65.	2.6	16
90	Thermoelectric and mechanical properties of PLA/Bi0Â·5Sb1Â·5Te3 composite wires used for 3D printing. Composites Science and Technology, 2018, 157, 1-9.	3.8	47
91	Polymer Composite Heat Exchangers. , 2018, , 53-116.		8

#	Article	IF	Citations
92	Morphological development and enhancement of thermal, mechanical, and electronic properties of thermally exfoliated graphene oxide-filled biodegradable polylactide/poly(Îµ-caprolactone) blend composites. Polymer, 2018, 139, 188-200.	1.8	33
93	Enhanced thermal conductivity and ideal dielectric properties of epoxy composites containing polymer modified hexagonal boron nitride. Composites Part A: Applied Science and Manufacturing, 2018, 107, 657-664.	3.8	133
94	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
95	The relevance of material and processing parameters on the thermal conductivity of thermoplastic composites. Polymer Engineering and Science, 2018, 58, 466-474.	1.5	34
96	Microdiamond/PLA composites with enhanced thermal conductivity through improving filler/matrix interface compatibility. Diamond and Related Materials, 2018, 81, 161-167.	1.8	22
97	The stiffnessâ€“thermal conduction relationship at the composite interface: the effect of particle alignment on the long-range confinement of polymer chains monitored by scanning thermal microscopy. Nanoscale, 2018, 10, 1695-1703.	2.8	56
98	Role of rheology in tunning thermal conductivity of polyamide 12/polyamide 6 composites with a segregated multiwalled carbon nanotube network. Journal of Composite Materials, 2018, 52, 2549-2557.	1.2	9
99	Enhanced thermal conductivity of polyethylene/boron nitride multilayer sheets through annealing. Composites Part A: Applied Science and Manufacturing, 2018, 107, 135-143.	3.8	62
100	Simultaneously facilitating dispersion and thermal reduction of graphene oxide to enhance thermal conductivity of poly(vinylidene fluoride)/graphene nanocomposites by water in continuous extrusion. Chemical Engineering Journal, 2018, 348, 693-703.	6.6	41
101	Assembly of graphene-aligned polymer composites for thermal conductive applications. Composites Communications, 2018, 9, 33-41.	3.3	92
102	Melamine foam-supported 3D interconnected boron nitride nanosheets network encapsulated in epoxy to achieve significant thermal conductivity enhancement at an ultralow filler loading. Chemical Engineering Journal, 2018, 348, 723-731.	6.6	172
103	Thermal transport in polymeric materials and across composite interfaces. Applied Materials Today, 2018, 12, 92-130.	2.3	299
104	Three-Dimensional Printing of Cytocompatible, Thermally Conductive Hexagonal Boron Nitride Nanocomposites. Nano Letters, 2018, 18, 3488-3493.	4.5	106
105	Molecular engineered conjugated polymer with high thermal conductivity. Science Advances, 2018, 4, eaar3031.	4.7	165
106	Highly Oriented Liquid Crystalline Epoxy Film: Robust High Thermal-Conductive Ability. ACS Omega, 2018, 3, 3562-3570.	1.6	35
107	Thermal property improvement of polytetrafluoroethylene nanocomposites with graphene nanoplatelets. RSC Advances, 2018, 8, 11367-11374.	1.7	28
108	Polymer composite with enhanced thermal conductivity and mechanical strength through orientation manipulating of BN. Composites Science and Technology, 2018, 160, 127-137.	3.8	199
109	Recent advances and remaining challenges for polymeric nanocomposites in healthcare applications. Progress in Polymer Science, 2018, 80, 1-38.	11.8	155

#	Article	IF	Citations
110	Hot-pressing induced alignment of boron nitride in polyurethane for composite films with thermal conductivity over 50â€Wmâ^'1â€Kâ^'1. Composites Science and Technology, 2018, 160, 199-207.	3.8	212
111	Preparation of carbon nanotube/copper/carbon fiber hierarchical composites by electrophoretic deposition for enhanced thermal conductivity and interfacial properties. Journal of Materials Science, 2018, 53, 8108-8119.	1.7	44
112	Performance improvement in nano-alumina filled silicone rubber composites by using vinyl tri-methoxysilane. Polymer Testing, 2018, 67, 295-301.	2.3	71
113	Functional Liquid Crystals towards the Next Generation of Materials. Angewandte Chemie - International Edition, 2018, 57, 4355-4371.	7.2	363
114	Influence of surface topography, crystallinity, and thermal conductivity on reflectance and color of metallicâ€effect highâ€density polyethylene parts filled with aluminum pigments. Polymer Engineering and Science, 2018, 58, 642-651.	1.5	4
115	Improving the flame resistance and thermal conductivity of ethyleneâ€vinyl acetate composites by incorporating hexachlorocyclotriphosphazeneâ€modified graphite and carbon nanotubes. Polymer Composites, 2018, 39, E891.	2.3	13
116	High-performance polymeric nanocomposites from phthalonitrile resin and silane surfaceâ€“modified Ti₃AlC₂ MAX phase. High Performance Polymers, 2018, 30, 427-436.	0.8	14
117	From lignocellulose to biocomposite: Multi-level modelling and experimental investigation of the thermal properties of kenaf fiber reinforced composites based on constituent materials. Applied Thermal Engineering, 2018, 128, 1372-1381.	3.0	32
118	Effective thermal conductivity of polymer composites: Theoretical models and simulation models. International Journal of Heat and Mass Transfer, 2018, 117, 358-374.	2.5	168
119	Highly anisotropic graphene/boron nitride hybrid aerogels with long-range ordered architecture and moderate density for highly thermally conductive composites. Carbon, 2018, 126, 119-127.	5.4	189
120	3.23 Polymer Matrix Composite Thermal Materials. , 2018, , 592-612.		0
121	Elevated gamma-rays shielding property in lead-free bismuth tungstate by nanofabricating structures. Journal of Physics and Chemistry of Solids, 2018, 112, 185-189.	1.9	36
122	A Facile Route to Fabricate Highly Anisotropic Thermally Conductive Elastomeric POE/NG Composites for Thermal Management. Advanced Materials Interfaces, 2018, 5, 1700946.	1.9	56
123	Enhanced Thermal Conductivity of 5A Molecular Sieve with BNs Segregated Structures. Advanced Engineering Materials, 2018, 20, 1700745.	1.6	9
124	Multifunctional poly(vinylidene fluoride) nanocomposites via incorporation of ionic liquid coated carbon nanotubes. European Polymer Journal, 2018, 98, 375-383.	2.6	17
125	Facile preparation of carbon nanotubesâ€“graphene hybrids and the effect of aspect ratio of carbon nanotubes on electrical and thermal properties of silicone rubber based composites. Materials Research Express, 2018, 5, 015301.	0.8	3
126	Investigation of the through-plane thermal conductivity of polymer composites with in-plane oriented hexagonal boron nitride. International Journal of Heat and Mass Transfer, 2018, 120, 1-8.	2.5	203
127	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
128	Thermal and electrical characterization of polymer/ceramic composites with polyvinyl butyral matrix. Materials Chemistry and Physics, 2018, 205, 401-415.	2.0	30
129	Two-dimensional lattice Boltzmann modeling for effective thermal conductivity in carbon black filled composites. Journal of Composite Materials, 2018, 52, 2047-2053.	1.2	10
130	Atomistic modeling of graphene/hexagonal boron nitride polymer nanocomposites: a review. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2018, 8, e1346.	6.2	99
131	Electrically insulating POE/BN elastomeric composites with high through-plane thermal conductivity fabricated by two-roll milling and hot compression. Advanced Composites and Hybrid Materials, 2018, 1, 160-167.	9.9	81
132	Amino Functionalization of Reduced Graphene Oxide/Tungsten Disulfide Hybrids and Their Bismaleimide Composites with Enhanced Mechanical Properties. Polymers, 2018, 10, 1199.	2.0	18
133	Determination of Key Influencing Factors on Thermal Conductivity Enhancement of Graphene Nano-Platelets Reinforced Epoxy. , 2018, , .		0
134	Bioinspired reinforcement of cyclosiloxane hybrid polymer. Chemical Communications, 2018, 54, 13415-13418.	2.2	11
135	Fabrication of covalently linked exfoliated boron nitride nanosheet/multi-walled carbon nanotube hybrid particles for thermal conductive composite materials. RSC Advances, 2018, 8, 33506-33515.	1.7	17
136	Von funktionellen FlÃ¼ssigkristallen zur nÃchsten Generation von Materialien. Angewandte Chemie, 2018, 130, 4438-4455.	1.6	31
137	Aminopropyltrimethoxysilane-functionalized boron nitride nanotube based epoxy nanocomposites with simultaneous high thermal conductivity and excellent electrical insulation. Journal of Materials Chemistry A, 2018, 6, 20663-20668.	5.2	56
138	Synergistic Improvement in Thermal Conductivity of Polyimide Nanocomposite Films Using Boron Nitride Coated Copper Nanoparticles and Nanowires. Polymers, 2018, 10, 1412.	2.0	21
139	FUNCTIONAL FILLERS SPECIAL PHYSICAL PROPERTIES. , 2018, , 43-57.		1
140	Curing kinetics of liquid crystalline 4,4â€²-Diglycidyloxybiphenyl epoxy cured with 4,4â€²-Diaminodiphenylsulfone. Polymer, 2018, 159, 6-11.	1.8	13
141	Investigation of the dielectric and thermal conductive properties of coreâ€“shell structured HGM@hBN/PTFE composites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 238-239, 61-70.	1.7	52
142	A novel graphene oxide millispheres / epoxy resin composite with improved thermal conductivity. , 2018, , .		0
143	Wireless, Batteryâ€Free Epidermal Electronics for Continuous, Quantitative, Multimodal Thermal Characterization of Skin. Small, 2018, 14, e1803192.	5.2	73
144	Comparative heat transfer studies of polymer block (PVA) coated with carbon (CB/Graphite) layer using comsol multiphysics Â®. AIP Conference Proceedings, 2018, , .	0.3	0
145	Fabrication of Thermal Conductivity Enhanced Polymer Composites by Constructing an Oriented Three-Dimensional Staggered Interconnected Network of Boron Nitride Platelets and Carbon Nanotubes. ACS Applied Materials & Interfaces, 2018, 10, 36342-36351.	4.0	94

#	Article	IF	Citations
146	Efficiently Controlling the 3D Thermal Conductivity of a Polymer Nanocomposite via a Hyperelastic Doubleâ€Continuous Network of Graphene and Sponge. Advanced Functional Materials, 2018, 28, 1805053.	7.8	147
147	Paving thermally conductive highway by 3D interconnected framework of carbon nanotube and graphene oxide in poly(vinylidene fluoride). Composites Part A: Applied Science and Manufacturing, 2018, 115, 331-340.	3.8	26
148	Graphene and carbon black filled conductive nanocomposite films for heating element applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 19005-19012.	1.1	3
149	An aqueous-only, green route to exfoliate boron nitride for preparation of high thermal conductive boron nitride nanosheet/cellulose nanofiber flexible film. Composites Science and Technology, 2018, 168, 287-295.	3.8	84
150	Scalable Approach to Construct Self-Assembled Graphene-Based Films with An Ordered Structure for Thermal Management. ACS Applied Materials & Interfaces, 2018, 10, 41690-41698.	4.0	32
151	Fabrication and tensile testing of 3D printed continuous wire polymer composites. Rapid Prototyping Journal, 2018, 24, 1131-1141.	1.6	29
152	Preparation and Characterization of Al<inf>2</inf>O<inf>3</inf>-AgNP hybrids for Application in Thermally Conductive Polymer Composites. , 2018, , .		0
153	Influence of paper type and liquid insulation on heat transfer in transformers. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1863-1870.	1.8	10
154	Tuning the Oxidation Degree of Graphite toward Highly Thermally Conductive Graphite/Epoxy Composites. Chemistry of Materials, 2018, 30, 7473-7483.	3.2	29
155	Effect of Carbon Nanotube Aspect Ratio on the Thermal and Electrical Properties of Epoxy Nanocomposites. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 697-704.	1.0	21
156	Photocurable acrylate-based composites with enhanced thermal conductivity containing boron and silicon nitrides. EXPRESS Polymer Letters, 2018, 12, 790-807.	1.1	17
157	Decoupled trends for electrical and thermal conductivity in phase-confined CNT co-continuous blends. Nanocomposites, 2018, 4, 80-86.	2.2	5
158	6.10 Electrically Conductive Nanocomposites. , 2018, , 248-314.		3
159	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
160	New insights into thermal conductivity of uniaxially stretched high density polyethylene films. Polymer, 2018, 154, 42-47.	1.8	32
161	Fluorinated Carbon Nanotube/Nanofibrillated Cellulose Composite Film with Enhanced Toughness, Superior Thermal Conductivity, and Electrical Insulation. ACS Applied Materials & Interfaces, 2018, 10, 34311-34321.	4.0	146
162	Unusual strain-dependent thermal conductivity modulation of silver nanoflower-polyurethane fibers. Nanoscale, 2018, 10, 17799-17806.	2.8	13
163	Highly thermally conductive layered polymer composite from solvent-exfoliated pristine graphene. Carbon, 2018, 140, 596-602.	5.4	36

#	Article	IF	Citations
164	Facile and Low Environmental Impact Approach to Prepare Thermally Conductive Nanocomposites Based on Polylactide and Graphite Nanoplatelets. ACS Sustainable Chemistry and Engineering, 2018, 6, 14340-14347.	3.2	13
165	Synergistic Enhancement of Thermal Conductivity and Dielectric Properties in Al2O3/BaTiO3/PP Composites. Materials, 2018, 11, 1536.	1.3	29
166	Heat transfer study of PVDF hollow fiber heat exchanger for desalination process. Desalination, 2018, 446, 1-11.	4.0	19
167	Preparation and Ablation Performance of Lightweight Phenolic Composite Material under Oxyacetylene Torch Environment. Journal of Aerospace Technology and Management, 2018, 10, .	0.3	4
168	Electrically insulating, layer structured SiR/GNPs/BN thermal management materials with enhanced thermal conductivity and breakdown voltage. Composites Science and Technology, 2018, 167, 456-462.	3.8	97
169	Composites with recycled rubber aggregates: Properties and opportunities in construction. Construction and Building Materials, 2018, 188, 884-897.	3.2	112
170	Orientation of boron nitride nanosheets in CM/EPDM Co-continuous blends and their thermal conductive properties. Polymer Testing, 2018, 69, 208-213.	2.3	14
171	Effective thermal transport highway construction within dielectric polymer composites via a vacuum-assisted infiltration method. Journal of Materials Chemistry C, 2018, 6, 6494-6501.	2.7	57
172	Laser transmission welding of poly(lactic acid) and polyamide66/sepiolite nanocomposites. Journal of Applied Polymer Science, 2018, 135, 46638.	1.3	10
173	Synergetic Improvement in Thermal Conductivity and Flame Retardancy of Epoxy/Silver Nanowires Composites by Incorporating â€œBranch-Likeâ€•Flame-Retardant Functionalized Graphene. ACS Applied Materials & Interfaces, 2018, 10, 21628-21641.	4.0	142
174	Designable coreâ€“shell graphite particles for thermally conductive and electrically insulating polymer composites. RSC Advances, 2018, 8, 16781-16787.	1.7	7
175	Effect of elastic modulus mismatch of epoxy/titanium dioxide coated silver nanowire composites on the performance of thermal conductivity. Composites Science and Technology, 2018, 165, 206-213.	3.8	43
176	Polypropylene foil response to voltage impulses. , 2018, , .		0
177	Facile In-situ Polymerization of Thermotropic Liquid Crystalline Polymers as Thermally Conductive Matrix Materials. Fibers and Polymers, 2018, 19, 1143-1149.	1.1	5
178	Thermal and Electrical Conductivity of Unsaturated Polyester Resin Filled with Copper Filler Composites. International Journal of Polymer Science, 2018, 2018, 1-10.	1.2	25
179	Synthesis and thermal conductivity of carbon nanotube (CNT)/polymer composites. , 2018, , .		0
180	Graphene Platelets and Their Polymer Composites: Fabrication, Structure, Properties, and Applications. Advanced Functional Materials, 2018, 28, 1706705.	7.8	183
181	Highly Anisotropic, Thermally Conductive, and Mechanically Strong Polymer Composites with Nacre-like Structure for Thermal Management Applications. ACS Applied Nano Materials, 2018, 1, 3312-3320.	2.4	48

#	Article	IF	Citations
182	Enhanced Thermal Conductivity of Segregated Poly(vinylidene fluoride) Composites via Forming Hybrid Conductive Network of Boron Nitride and Carbon Nanotubes. Industrial & Engineering Chemistry Research, 2018, 57, 10391-10397.	1.8	58
183	Photocurable shape-memory polyether-polythioether/graphene nanocomposites and the study of their thermal conductivity. Journal of Polymer Research, 2018, 25, 1.	1.2	4
184	Treatment of Atmospheric-Pressure Radio Frequency Plasma on Boron Nitride for Improving Thermal Conductivity of Polydimethylsiloxane Composites. Macromolecular Research, 2018, 26, 864-867.	1.0	20
185	Mesoscopic Simulation Assistant Design of Immiscible Polyimide/BN Blend Films with Enhanced Thermal Conductivity. Chinese Journal of Polymer Science (English Edition), 2018, 36, 1394-1402.	2.0	17
186	Facile fabrication of large 3D graphene filler modified epoxy composites with improved thermal conduction and tribological performance. Carbon, 2018, 139, 1168-1177.	5.4	71
187	One-step enrichment of silica nanoparticles on milled carbon fibers and their effects on thermal, electrical, and mechanical properties of polymethyl-vinyl siloxane rubber composites. Composites Part A: Applied Science and Manufacturing, 2018, 113, 287-297.	3.8	16
188	A review of the interfacial characteristics of polymer nanocomposites containing carbon nanotubes. RSC Advances, 2018, 8, 28048-28085.	1.7	163
189	Enhanced through-plane thermal conductivity of PTFE composites with hybrid fillers of hexagonal boron nitride platelets and aluminum nitride particles. Composites Part B: Engineering, 2018, 153, 1-8.	5.9	217
190	Synthesis and growth mechanism of single crystal Î²â€Si 3 N 4 particles with a quasiâ€spherical morphology. Journal of the American Ceramic Society, 2018, 101, 4526-4537.	1.9	2
191	The effect of filler localization on morphology and thermal conductivity of the polyamide/cyclic olefin copolymer blends filled with boron nitride. Journal of Materials Science, 2018, 53, 16146-16159.	1.7	20
192	Recent Advances in Graphene-Based Free-Standing Films for Thermal Management: Synthesis, Properties, and Applications. Coatings, 2018, 8, 63.	1.2	43
193	Thermal conductivity enhancement of reduced graphene oxide via chemical defect healing for efficient heat dissipation. Carbon, 2018, 139, 386-392.	5.4	39
194	Polyhedral oligomeric silsesquioxane functionalized carbon nanotubes for high thermal conductive poly(vinylidene fluoride) composite membrane. Materials and Design, 2018, 156, 242-251.	3.3	36
195	Electrically and Thermally Conductive Low Density Polyethylene-Based Nanocomposites Reinforced by MWCNT or Hybrid MWCNT/Graphene Nanoplatelets with Improved Thermo-Oxidative Stability. Nanomaterials, 2018, 8, 264.	1.9	51
196	Thermoconductive Thermosetting Composites Based on Boron Nitride Fillers and Thiol-Epoxy Matrices. Polymers, 2018, 10, 277.	2.0	28
197	High Thermal Conductivity of Flake Graphite Reinforced Polyethylene Composites Fabricated by the Powder Mixing Method and the Melt-Extruding Process. Polymers, 2018, 10, 693.	2.0	11
198	Thermal conductivity of polymers and polymer nanocomposites. Materials Science and Engineering Reports, 2018, 132, 1-22.	14.8	551
199	Anisotropic thermal conductivity study of nano-additives/epoxy based nanocomposites. AIP Conference Proceedings, 2018, , .	0.3	1

#	Article	IF	Citations
200	Three-dimensional graphene-based polymer nanocomposites: preparation, properties and applications. Nanoscale, 2018, 10, 14788-14811.	2.8	162
201	Probability of conductive bond formation in a percolating network of nanowires with fusible tips. Applied Physics Letters, 2018, 112, 131904.	1.5	3
202	Thermally conductive polybutylene terephthalate/hexagonal boron nitride composites with bimodal filler size distribution. Materials Chemistry and Physics, 2018, 214, 221-228.	2.0	8
203	Influence of phase morphology on the rheology and thermal conductivity of HDPE/PA6 immiscible blends with alumina whiskers. Polymer Testing, 2018, 71, 56-64.	2.3	15
204	One-Step in Situ Ball Milling Synthesis of Polymer-Functionalized Few-Layered Boron Nitride and Its Application in High Thermally Conductive Cellulose Composites. ACS Applied Nano Materials, 2018, 1, 4875-4883.	2.4	61
205	Influence of measurement parameters of laser flash analysis on the observed thermal diffusivity and the choice of parameters to get repeatable measurements. Journal of Thermal Analysis and Calorimetry, 2018, 134, 1183-1203.	2.0	4
206	Asynchronous synthesis method of waterborne polyurethane with the differences of structural features and thermal conductivity. Journal of Polymer Research, 2018, 25, 1.	1.2	11
207	Anisotropic Thermal Interface Materials: Directional Heat Transfer in Uniaxially Oriented Liquid Crystal Networks. ACS Applied Materials & Interfaces, 2018, 10, 35557-35562.	4.0	40
208	Interfacial characteristics of carbon nanotube-polymer composites: A review. Composites Part A: Applied Science and Manufacturing, 2018, 114, 149-169.	3.8	142
209	Densely Interconnected Porous BN Frameworks for Multifunctional and Isotropically Thermoconductive Polymer Composites. Advanced Functional Materials, 2018, 28, 1801205.	7.8	76
210	Structural design of multilayer thermally conductive nanofibrillated cellulose hybrid film with electrically insulating and antistatic properties. Journal of Materials Chemistry C, 2018, 6, 7085-7091.	2.7	42
211	In situ shear-induced mercapto group-activated graphite nanoplatelets for fabricating mechanically strong and thermally conductive elastomer composites for thermal management applications. Composites Part A: Applied Science and Manufacturing, 2018, 112, 40-48.	3.8	53
212	Iodine nanoparticle-enhancing electrical and thermal transport for carbon nanotube fibers. Applied Thermal Engineering, 2018, 141, 913-920.	3.0	45
213	Thermally Conductive Dielectric Polymer Materials for Energy Storage. , 2018, , 323-349.		3
214	Synthesis and thermal conductivity of expanded graphite (EG)/polymer composites. , 2018, , .		0
215	Microstructure engineering of graphene towards highly thermal conductive composites. Composites Part A: Applied Science and Manufacturing, 2018, 112, 216-238.	3.8	106
216	PDMS with designer functionalitiesâ€"Properties, modifications strategies, and applications. Progress in Polymer Science, 2018, 83, 97-134.	11.8	478
217	Roles of silica-coated layer on graphite for thermal conductivity, heat dissipation, thermal stability, and electrical resistivity of polymer composites. Polymer, 2018, 148, 295-302.	1.8	33

#	Article	IF	Citations
218	Thermal and electrical properties of carbon nanotube-based epoxy composite materials. Materials Research Express, 2018, 5, 065051.	0.8	6
219	Modelling and analysis of effective thermal conductivity for polymer composites with sheet-like nanoparticles. Journal of Materials Science, 2019, 54, 356-369.	1.7	16
220	The influence of montmorillonite on the processing and properties of anionic polyamide 6/montmorillonite composites via vacuum assisted resin infusion. Polymer Composites, 2019, 40, 1481-1491.	2.3	5
221	Maximizing the Performance of a 3D Printed Heat Sink by Accounting for Anisotropic Thermal Conductivity During Filament Deposition. , 2019, , .		16
222	Millefeuille-Inspired Thermally Conductive Polymer Nanocomposites with Overlapping BN Nanosheets for Thermal Management Applications. ACS Applied Materials & Interfaces, 2019, 11, 31402-31410.	4.0	152
223	High thermal conductivity of chain-aligned bulk linear ultra-high molecular weight polyethylene. Journal of Applied Physics, 2019, 125, .	1.1	15
224	A double mixing process to greatly enhance thermal conductivity of graphene filled polyamide 6 composites. Composites Part A: Applied Science and Manufacturing, 2019, 126, 105578.	3.8	41
225	Optimization of Boron Nitride Sphere Loading in Epoxy: Enhanced Thermal Conductivity and Excellent Electrical Insulation. Polymers, 2019, 11, 1335.	2.0	26
226	Fractional single-phase lag heat conduction and transient thermal fracture in cracked viscoelastic materials. Acta Mechanica, 2019, 230, 3723-3740.	1.1	7
227	Thermal Conductivity Enhancement Derived from Poly(Methyl Methacrylate)-Grafted Carbon Nanotubes in Poly(Methyl Methacrylate)/Polystyrene Blends. Polymers, 2019, 11, 1347.	2.0	16
228	High thermal conductivity insulation and sheathing materials for electric vehicle cable application. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1363-1370.	1.8	11
229	Performance Characterization of a Novel Cross-Media Composite Heat Exchanger for Air-to-Liquid Applications. , 2019, , .		5
230	Transparent, Highâ€Thermalâ€Conductivity Ultradrawn Polyethylene/Graphene Nanocomposite Films. Advanced Materials, 2019, 31, e1904348.	11.1	69
231	Preparation and application of high thermal conductivity TMBPDGE-DDM@h-BN composites. Materials Research Express, 2019, 6, 095320.	0.8	7
232	Enhanced through-thickness thermal conductivity of epoxy with cellulose-supported boron nitride nanosheets. Polymer, 2019, 179, 121653.	1.8	12
233	Effect of heat treatment on the thermophysical properties of copper-powder-filled polycarbonate and polycarbonate containing paraffin. Journal of Polymer Engineering, 2019, 39, 729-735.	0.6	0
234	Thermally Conductive and Electrically Insulating PVP/Boron Nitride Composite Films for Heat Spreader. , 2019, , .		1
235	Thermal Conductivity and Mechanical Properties of Thermoplastic Polyurethane-/Silane-Modified Al2O3 Composite Fabricated via Melt Compounding. Polymers, 2019, 11, 1103.	2.0	46

#	Article	IF	Citations
236	Achieving High Thermal Conductivity in Epoxy Composites: Effect of Boron Nitride Particle Size and Matrix-Filler Interface. Polymers, 2019, 11, 1156.	2.0	54
237	One-step electrodeposition of Cu/CNT/CF multiscale reinforcement with substantially improved thermal/electrical conductivity and interfacial properties of epoxy composites. Composites Part A: Applied Science and Manufacturing, 2019, 125, 105530.	3.8	60
238	3D interconnected structure of poly(methyl methacrylate) microbeads coated with copper nanoparticles for highly thermal conductive epoxy composites. Composites Part B: Engineering, 2019, 175, 107105.	5.9	25
239	Thermal conductivity of highly filled polymer nanocomposites. Composites Science and Technology, 2019, 182, 107717.	3.8	19
240	Three dimensional porous alumina network for polymer composites with enhanced thermal conductivity. Composites Part A: Applied Science and Manufacturing, 2019, 124, 105511.	3.8	75
241	Aromatic molecular junctions between graphene sheets: a molecular dynamics screening for enhanced thermal conductance. RSC Advances, 2019, 9, 15573-15581.	1.7	7
242	Simultaneous enhancement of electrical conductivity and interlaminar shear strength of CF /EP composites through MWCNTs doped thermoplastic polyurethane film interleaves. Journal of Applied Polymer Science, 2019, 136, 47988.	1.3	13
243	Effect of the blending processes on selective localization and thermal conductivity of BN in PP/EPDM Co-continuous blends. Polymer Testing, 2019, 78, 105978.	2.3	14
244	Carbothermal Synthesis of Spherical AlN Fillers. , 2019, , .		0
245	Microwave assisted sinter molding of polyetherimide/carbon nanotubes composites with segregated structure for high-performance EMI shielding applications. Composites Science and Technology, 2019, 182, 107753.	3.8	65
246	Effect of an interface layer on thermal conductivity of polymer composites studied by the design of double-layered and triple-layered composites. International Journal of Heat and Mass Transfer, 2019, 141, 1049-1055.	2.5	15
247	Cleaner production of thermal insulation boards utilizing buffing dust waste. Journal of Cleaner Production, 2019, 236, 117603.	4.6	16
248	Comparative Study of Carbon Nanoparticles and Single-Walled Carbon Nanotube for Light-Heat Conversion and Thermal Conductivity Enhancement of the Multifunctional PEG/Diatomite Composite Phase Change Material. ACS Applied Materials & Interfaces, 2019, 11, 29698-29707.	4.0	50
249	Comparison of Thermomechanical Properties for Weaved Polyethylene and Its Nanocomposite Based on the CNT Junction by Molecular Dynamics Simulation. Journal of Physical Chemistry C, 2019, 123, 19412-19420.	1.5	7
250	Fluoride doped SiC/Si3N4 composite as a high thermal conductive material with enhanced mechanical properties. Ceramics International, 2019, 45, 21004-21010.	2.3	20
251	Highly enhanced thermal conductivity of epoxy composites by constructing dense thermal conductive network with combination of alumina and carbon nanotubes. Composites Part A: Applied Science and Manufacturing, 2019, 125, 105496.	3.8	37
252	Replication and Thermal Properties of One-Dimensional Composite Nanostructures with Enhanced Mechanical Robustness. Journal of the Electrochemical Society, 2019, 166, B3282-B3289.	1.3	3
253	Thermally conductive and highly rigid polylactic acid (PLA) hybrid composite filled with surface treated alumina/nano-sized aluminum nitride. Composites Part A: Applied Science and Manufacturing, 2019, 124, 105506.	3.8	68

#	Article	IF	Citations
254	A spatially-varying relaxation parameter Lattice Boltzmann Method (SVRP-LBM) for predicting the effective thermal conductivity of composite material. Computational Materials Science, 2019, 169, 109080.	1.4	10
255	A new three-dimensional finite-volume model for evaluation of thermal conductivity of periodic multiphase composites. International Journal of Heat and Mass Transfer, 2019, 139, 412-424.	2.5	19
256	Directional xylitol crystal propagation in oriented micro-channels of boron nitride aerogel for isotropic heat conduction. Composites Science and Technology, 2019, 182, 107715.	3.8	20
257	A phonon wave packet study of thermal energy transport across functionalized hard-soft interfaces. Journal of Applied Physics, 2019, 126, .	1.1	9
258	Highly Thermally Conductive Polymer Composite Originated from Assembly of Boron Nitride at an Oilâ€“Water Interface. ACS Applied Materials & Interfaces, 2019, 11, 42818-42826.	4.0	71
259	Modeling the Thermal Conductivity Inhomogeneities of Injection-Molded Particle-Filled Composites, Caused by Segregation. Polymers, 2019, 11, 1691.	2.0	1
260	Effective Heat Transfer Pathways of Thermally Conductive Networks Formed by One-Dimensional Carbon Materials with Different Sizes. Polymers, 2019, 11, 1661.	2.0	11
261	Highly thermally conductive and mechanically robust composite of linear ultrahigh molecular weight polyethylene and boron nitride via constructing nacre-like structure. Composites Science and Technology, 2019, 184, 107858.	3.8	42
262	Carbon nanofiber reinforced Co-continuous HDPE/PMMA composites: Exploring the role of viscosity ratio on filler distribution and electrical/thermal properties. Composites Science and Technology, 2019, 184, 107859.	3.8	28
263	Predicting the effective thermal conductivity of composites from cross sections images using deep learning methods. Composites Science and Technology, 2019, 184, 107861.	3.8	90
264	Synthesis of Sandwich-Like Nanostructure Fillers and Their Use in Different Types of Thermal Composites. ACS Applied Materials & Interfaces, 2019, 11, 40694-40703.	4.0	26
265	Thermal transport properties at interface of fatty acid esters enhanced with carbon-based nanoadditives. International Journal of Heat and Mass Transfer, 2019, 145, 118762.	2.5	6
266	High thermal conductivity and excellent flexibility of crystalline polyesters with flexible segments in main chains. Reactive and Functional Polymers, 2019, 145, 104370.	2.0	3
267	Recent Advances in Characterization Techniques for the Interface in Carbon Nanotube-Reinforced Polymer Nanocomposites. Advances in Materials Science and Engineering, 2019, 2019, 1-24.	1.0	9
268	Effect of various carbon nanofillers and different filler aspect ratios on the thermal conductivity of epoxy matrix nanocomposites. Results in Physics, 2019, 15, 102771.	2.0	23
269	Enhancement of the thermal conductivity of polypropylene with low loadings of CuAg alloy nanoparticles and graphene nanoplatelets. Materials Today Communications, 2019, 21, 100695.	0.9	11
270	Cotton Candy-Templated Fabrication of Three-Dimensional Ceramic Pathway within Polymer Composite for Enhanced Thermal Conductivity. ACS Applied Materials & Interfaces, 2019, 11, 44700-44707.	4.0	74
271	Anisotropic Thermally Conductive Perfluoroalkoxy Composite with Low Dielectric Constant Fabricated by Aligning Boron Nitride Nanosheets via Hot Pressing. Polymers, 2019, 11, 1638.	2.0	13

#	Article	IF	Citations
272	Co-curable poly(glycidyl methacrylate)-grafted graphene/epoxy composite for thermal conductivity enhancement. Polymer, 2019, 183, 121834.	1.8	19
273	Advanced functional materials for soft robotics: tuning physicochemical properties beyond rigidity control. Multifunctional Materials, 2019, 2, 042001.	2.4	13
274	Multiscale Investigation of Interfacial Thermal Properties of n-Octadecane Enhanced with Multilayer Graphene. Journal of Physical Chemistry C, 2019, 123, 23297-23305.	1.5	6
275	Modeling Thermal Conductivity of Highly Filled Polymer Composites. Polymer Engineering and Science, 2019, 59, 2174-2179.	1.5	6
276	Composite Carbonâ€“Epoxy Tubes for Space Structures: Ground Vacuum Radiant Experiments and Structural Behavior Analysis. Journal of Aerospace Engineering, 2019, 32, 04019084.	0.8	0
277	Antimicrobial hexagonal boron nitride nanoplatelet composites for the thermal management of medical electronic devices. Materials Chemistry Frontiers, 2019, 3, 2455-2462.	3.2	18
278	A polymer-based thermal management material with enhanced thermal conductivity by introducing three-dimensional networks andÂcovalent bond connections. Carbon, 2019, 155, 258-267.	5.4	92
279	The combustion synthesis of highly crystalline boron nitride nanosheets and their application in thermoconductive polymeric composites. CrystEngComm, 2019, 21, 5461-5469.	1.3	15
280	Improved dielectric properties and thermal conductivity of PVDF composites filled with coreâ€“shell structured Cu@CuO particles. Journal of Materials Science: Materials in Electronics, 2019, 30, 18350-18361.	1.1	37
281	Improvement of Thermal Conductivities for Epoxy Composites via Incorporating Poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Research, 2019, 58, 18635-18643.	1.8	24
282	Research on the thermal conductivity and dielectric properties of AlN and BN co-filled addition-cure liquid silicone rubber composites. RSC Advances, 2019, 9, 28851-28856.	1.7	33
283	Improvement in mechanical and thermal properties of polypropylene nanocomposites using an extremely small amount of alkyl chain-grafted hexagonal boron nitride nanosheets. Polymer, 2019, 180, 121714.	1.8	28
284	Toward Industrial Exploitation of THz Frequencies: Integration of SiGe MMICs in Silicon-Micromachined Waveguide Systems. IEEE Transactions on Terahertz Science and Technology, 2019, 9, 624-636.	2.0	31
285	An investigation on effective thermal conductivity of hybrid-filler polymer composites under effects of random particle distribution, particle size and thermal contact resistance. International Journal of Heat and Mass Transfer, 2019, 144, 118605.	2.5	31
286	Achieving high thermal conductivity and mechanical reinforcement in ultrahigh molecular weight polyethylene bulk material. Polymer, 2019, 180, 121760.	1.8	25
287	Metal-Level Thermally Conductive yet Soft Graphene Thermal Interface Materials. ACS Nano, 2019, 13, 11561-11571.	7.3	214
288	Construction of polydisperse polymer model and investigation of heat conduction: A molecular dynamics study of linear and branched polyethylenimine. Polymer, 2019, 180, 121721.	1.8	15
289	Affordable Polymerâ€“Carbon Composite Electrodes for Electroosmotic Dehydration and Electro-Fenton Processes. Industrial & Engineering Chemistry Research, 2019, 58, 19917-19925.	1.8	4

#	Article	IF	Citations
290	A multifunctional shape-morphing elastomer with liquid metal inclusions. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21438-21444.	3.3	203
291	Grapheneâ"Perfluoroalkoxy Nanocomposite with High Through-Plane Thermal Conductivity Fabricated by Hot-Pressing. Nanomaterials, 2019, 9, 1320.	1.9	7
292	Toward high-accuracy and high-applicability of a practical model to predict effective thermal conductivity of particle-reinforced composites. International Journal of Heat and Mass Transfer, 2019, 131, 863-872.	2.5	6
293	Effect of filler type and particle size distribution on thermal properties of bimodal and hybrid â€" BN/Boehmite-filled EP-Novolac composites. AIP Conference Proceedings, 2019, , .	0.3	6
294	Internal Resonance Responses of Rectangular Cross-Ply Composite Plates with Graphene Skins. International Journal of Structural Stability and Dynamics, 2019, 19, 1950057.	1.5	8
295	Characterization and morphological development of polypropylene/polyamide 6 blends using polyamide 6 powder and single-walled carbon nanotube. Journal of Composite Materials, 2019, 53, 2197-2207.	1.2	2
296	Highly Thermally Conductive Polyimide Composites via Constructing 3D Networks. Macromolecular Rapid Communications, 2019, 40, e1800805.	2.0	31
297	Identifying the Prevalence of Dysphagia among Patients Diagnosed with Unilateral Vocal Fold Immobility. Otolaryngology - Head and Neck Surgery, 2019, 160, 955-964.	1.1	15
298	Continuous network of CNTs in poly(vinylidene fluoride) composites with high thermal and mechanical performance for heat exchangers. Composites Science and Technology, 2019, 173, 33-40.	3.8	31
299	Fabrication of polymethyl methacrylate composites with silanized boron nitride by in-situ polymerization for high thermal conductivity. Composites Science and Technology, 2019, 172, 153-162.	3.8	95
300	Synthesis of freestanding PEDOT:PSS/PVA@Ag NPs nanofiber film for high-performance flexible thermoelectric generator. Polymer, 2019, 167, 102-108.	1.8	55
301	Crosslinking Effect on Thermal Conductivity of Electrospun Poly(acrylic acid) Nanofibers. Polymers, 2019, 11, 858.	2.0	17
302	Thermal conductivity and diffusivity of carbonâ€reinforced polyetherketoneketone composites. Journal of Applied Polymer Science, 2019, 136, 47975.	1.3	15
303	Enhanced thermal conductivity of multilayered sheets of polyethylene and boron nitride via promoting molecular diffusion between layers. Journal of Applied Physics, 2019, 125, .	1.1	8
304	Designing Poly(vinylidene fluoride)-Silicon Carbide Nanowire Composite Structures to Achieve High Thermal Conductivity. ACS Applied Polymer Materials, 2019, 1, 2807-2818.	2.0	21
305	Highly thermal conductive polymer composites via constructing micro-phragmites communis structured carbon fibers. Chemical Engineering Journal, 2019, 375, 121921.	6.6	115
306	Graphene foam-embedded epoxy composites with significant thermal conductivity enhancement. Nanoscale, 2019, 11, 17600-17606.	2.8	105
307	Nacre-like composite films with high thermal conductivity, flexibility, and solvent stability for thermal management applications. Journal of Materials Chemistry C, 2019, 7, 9018-9024.	2.7	79

#	Article	IF	Citations
308	Thermo-tribological characteristics of polyester composites containing aluminium particles and network. Mechanical Engineering Journal, 2019, 6, 18-00548-18-00548.	0.2	0
309	Efficient heat conducting liquid metal/CNT pads with thermal interface materials. Bulletin of Materials Science, 2019, 42, 1.	0.8	31
310	Effect of silver-plated expanded graphite addition on thermal and electrical conductivities of epoxy composites in the presence of graphite and copper. Composites Part A: Applied Science and Manufacturing, 2019, 123, 253-259.	3.8	31
311	Poly(dimethylsiloxane)/Cu/Ag nanocomposites: Electrical, thermal, and mechanical properties. Polymer Composites, 2019, 40, 4093-4101.	2.3	6
312	Hybrid three-dimensional graphene fillers and graphite platelets to improve the thermal conductivity and wear performance of epoxy composites. Composites Part A: Applied Science and Manufacturing, 2019, 123, 270-277.	3.8	25
313	Ultralow-Threshold and Color-Tunable Continuous-Wave Lasing at Room-Temperature from In Situ Fabricated Perovskite Quantum Dots. Journal of Physical Chemistry Letters, 2019, 10, 3248-3253.	2.1	83
314	Superelastic, Anticorrosive, and Flame-Resistant Nitrogen-Containing Resorcinol Formaldehyde/Graphene Oxide Composite Aerogels. ACS Sustainable Chemistry and Engineering, 2019, 7, 10873-10879.	3.2	20
315	Nanostructured polymer films with metal-like thermal conductivity. Nature Communications, 2019, 10, 1771.	5.8	197
316	Boron nitride nanosheets endow the traditional dielectric polymer composites with advanced thermal management capability. Composites Science and Technology, 2019, 177, 88-95.	3.8	88
317	Role of Ionization in Thermal Transport of Solid Polyelectrolytes. Journal of Physical Chemistry C, 2019, 123, 12659-12665.	1.5	26
318	3D Thermally Crossâ€Linked Graphene Aerogelâ€“Enhanced Silicone Rubber Elastomer as Thermal Interface Material. Advanced Materials Interfaces, 2019, 6, 1900147.	1.9	47
319	Enhancement of thermal conductivity in epoxy coatings through the combined addition of expanded graphite and boron nitride fillers. Progress in Organic Coatings, 2019, 133, 299-308.	1.9	22
320	Chemical-Vapor-Deposited Graphene as a Thermally Conducting Coating. ACS Applied Nano Materials, 2019, 2, 2621-2633.	2.4	9
321	Improving the thermal and electrical properties of polymer composites by ordered distribution of carbon micro- and nanofillers. International Journal of Heat and Mass Transfer, 2019, 138, 75-84.	2.5	29
322	Stereocomplexation of Poly(Lactic Acid)s on Graphite Nanoplatelets: From Functionalized Nanoparticles to Self-assembled Nanostructures. Frontiers in Chemistry, 2019, 7, 176.	1.8	11
323	Numerical analysis for the effects of particle distribution and particle size on effective thermal conductivity of hybrid-filler polymer composites. International Journal of Thermal Sciences, 2019, 142, 42-53.	2.6	13
324	Highly Thermally Conducting Polymer-Based Films with Magnetic Field-Assisted Vertically Aligned Hexagonal Boron Nitride for Flexible Electronic Encapsulation. ACS Applied Materials & Interfaces, 2019, 11, 17915-17924.	4.0	70
325	Liquid crystalline epoxies bearing biphenyl ether and aromatic ester mesogenic units: Synthesis and thermal properties. Journal of Macromolecular Science - Pure and Applied Chemistry, 2019, 56, 484-495.	1.2	21

#	Article	IF	Citations
326	Inorganicâ€“Organic Hybrid Janus Fillers for Improving the Thermal Conductivity of Polymer Composites. ACS Applied Materials & Interfaces, 2019, 11, 12190-12194.	4.0	39
327	Nacre-inspired polymer composites with high thermal conductivity and enhanced mechanical strength. Composites Part A: Applied Science and Manufacturing, 2019, 121, 92-99.	3.8	94
328	Tailoring Thermal Transport Properties of Graphene Paper by Structural Engineering. Scientific Reports, 2019, 9, 4549.	1.6	9
329	Epoxy filled with bare and oxidized multi-layered graphene nanoplatelets: a comparative study of filler loading impact on thermal properties. Journal of Materials Science, 2019, 54, 9247-9266.	1.7	17
330	Research Progress on Conducting Polymer-Based Biomedical Applications. Applied Sciences (Switzerland), 2019, 9, 1070.	1.3	51
331	Globally reinforced mechanical, electrical, and thermal properties of nonlinear conductivity composites by surface treatment of varistor microspheres. Composites Science and Technology, 2019, 175, 151-157.	3.8	19
332	An efficient approach for constructing 3-D boron nitride networks with epoxy composites to form materials with enhanced thermal, dielectric, and mechanical properties. High Performance Polymers, 2019, 31, 350-358.	0.8	19
333	Hybrid fillers of hexagonal and cubic boron nitride in epoxy composites for thermal management applications. RSC Advances, 2019, 9, 7388-7399.	1.7	42
334	The effects of annealing conditions on the wear of PDA/PTFE coatings. Applied Surface Science, 2019, 481, 723-735.	3.1	26
335	Development of Date Pitâ€“Polystyrene Thermoplastic Heat Insulator Material: Physical and Thermal Properties. International Journal of Polymer Science, 2019, 2019, 1-10.	1.2	23
336	Synergistic Effect of Aligned Graphene Nanosheets in Graphene Foam for Highâ€Performance Thermally Conductive Composites. Advanced Materials, 2019, 31, e1900199.	11.1	173
337	Analyzing Thermal Conductivity of Polyetheleneâ€Based Compounds Filled with Copper. Macromolecular Materials and Engineering, 2019, 304, 1800644.	1.7	15
338	Enhancement of the electrical and thermal properties of unidirectional carbon fibre/epoxy laminates through the addition of graphene oxide. Journal of Materials Science, 2019, 54, 8955-8970.	1.7	64
339	Effect of microscopic-ordered structures on intrinsic thermal conductivity of liquid-crystalline polysiloxane. Journal of Materials Science: Materials in Electronics, 2019, 30, 8329-8338.	1.1	13
340	Size-controlled graphite nanoplatelets: thermal conductivity enhancers for epoxy resin. Journal of Materials Science, 2019, 54, 10041-10054.	1.7	13
341	Preparation of Cellulose-Polyaniline Composite Microspheres via Electron Beam Irradiation Grafting and Itâ€™s Properties. IOP Conference Series: Materials Science and Engineering, 2019, 493, 012111.	0.3	0
342	Preparation and characterization of epoxy-based composite with multilayered structure and high thermal conductivity. Materials Research Express, 2019, 6, 075314.	0.8	9
343	Digital X-Ray Flat Panel Housing for Operation at Extremely Low Temperatures. Materials Science Forum, 2019, 942, 68-76.	0.3	0

#	Article	IF	Citations
344	Preparation and characterisation of ion-conductive unsaturated polyester resins for the on-site production of resistivity sensors. Ionics, 2019, 25, 3971-3978.	1.2	6
345	Enhanced Thermal Conductivity and Balanced Mechanical Performance of PP/BN Composites with 1 vol% Finely Dispersed MWCNTs Assisted by OBC. Advanced Materials Interfaces, 2019, 6, 1900081.	1.9	33
346	Low effective content of reduced graphene oxide/silver nanowire hybrids in epoxy composites with enhanced conductive properties. Journal of Materials Science: Materials in Electronics, 2019, 30, 7384-7392.	1.1	16
347	Construction of 3D boron nitride nanosheets/silver networks in epoxy-based composites with high thermal conductivity via in-situ sintering of silver nanoparticles. Chemical Engineering Journal, 2019, 369, 1150-1160.	6.6	172
348	Polymerâ€Based Nanoâ€Composites for Thermal Insulation. Advanced Engineering Materials, 2019, 21, 1801162.	1.6	45
349	Short Review on Conductive Polymer Composites as Functional Materials. Key Engineering Materials, 0, 796, 17-21.	0.4	4
350	Improved thermal conductivity and dielectric properties of flexible PMIA composites with modified micro- and nano-sized hexagonal boron nitride. Frontiers of Materials Science, 2019, 13, 64-76.	1.1	23
351	Grapheneâ€“graphite hybrid epoxy composites with controllable workability for thermal management. Beilstein Journal of Nanotechnology, 2019, 10, 95-104.	1.5	13
352	Recent Advances in nâ€Type Thermoelectric Nanocomposites. Advanced Electronic Materials, 2019, 5, 1800943.	2.6	46
353	Preparation and processing of porous sulfur foams having low thermal conductivity. RSC Advances, 2019, 9, 4397-4403.	1.7	16
354	Epoxyâ€based composite adhesives: Effect of hybrid fillers on thermal conductivity, rheology, and lap shear strength. Polymers for Advanced Technologies, 2019, 30, 1365-1374.	1.6	21
355	Copper flake-coated cellulose scaffold to construct segregated network for enhancing thermal conductivity of epoxy composites. Composites Part B: Engineering, 2019, 165, 772-778.	5.9	31
356	Thermal conductivity enhancement of erythritol phase change material with percolated aluminum filler. Materials Chemistry and Physics, 2019, 229, 87-91.	2.0	39
357	Basalt waste management in the production of highly effective porous polyurethane composites for thermal insulating applications. Polymer Testing, 2019, 76, 90-100.	2.3	67
358	Thermal expansion properties of the polycaprolactam nanocomposites reinforced with single-walled carbon nanotubes. Results in Physics, 2019, 12, 1645-1652.	2.0	7
359	Hierarchically hydrogen-bonded graphene/polymer interfaces with drastically enhanced interfacial thermal conductance. Nanoscale, 2019, 11, 3656-3664.	2.8	45
360	Rational Design of Soft, Thermally Conductive Composite Liquidâ€Cooled Tubes for Enhanced Personal, Robotics, and Wearable Electronics Cooling. Advanced Materials Technologies, 2019, 4, 1800690.	3.0	29
361	Highly thermal conductivity of CNF/AlN hybrid films for thermal management of flexible energy storage devices. Carbohydrate Polymers, 2019, 213, 228-235.	5.1	97

#	Article	IF	Citations
362	Effect of Matrix and Graphite Filler on Thermal Conductivity of Industrially Feasible Injection Molded Thermoplastic Composites. Polymers, 2019, 11, 87.	2.0	35
363	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
364	Thermal polymer composites of hybrid fillers. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012037.	0.3	3
365	Introductory Chapter: The Way to Fulfill Science Fiction. , 2019, , .		0
366	Molecular Dynamics Simulations of Self-Assembled Polyethylene-Hexagonal Boron Nitride Composite and Its Thermal Conductivity. , 2019, , .		0
367	Synergistic construction of thermally conductive network in polybenzoxazine with boron nitride hybrid fillers. Materials Research Express, 2019, 6, 125369.	0.8	6
368	Experimental Analysis on the Application of Polymer Matrix Composites Containing Al2O3 for Automotive Lamp Reflector. Applied Sciences (Switzerland), 2019, 9, 4525.	1.3	3
369	Epoxy Composites with Surface Modified Silicon Carbide Filler for High Temperature Molding Compounds. , 2019, , .		3
370	A combination of graphene and graphene nanoplatelets: An effective way to improve thermal conductivity for polymers. Results in Physics, 2019, 15, 102803.	2.0	8
371	Fabrication of PMIA/fBN Dielectric Composite with Enhanced Breakdown Strength and Thermal Conductivity. Materials Science Forum, 2019, 960, 256-262.	0.3	0
372	Tailored morphology and highly enhanced phonon transport in polymer fibers: a multiscale computational framework. Npj Computational Materials, 2019, 5, .	3.5	31
373	A cross-interface model for thermal transport across the interface between overlapped nanoribbons. Physical Chemistry Chemical Physics, 2019, 21, 25072-25079.	1.3	20
374	A stretchable laminated GNRs/BNNSs nanocomposite with high electrical and thermal conductivity. Nanoscale, 2019, 11, 20648-20658.	2.8	30
375	High thermal conductivity property of polyamide-imide/boron nitride composite films by doping boron nitride quantum dots. Journal of Materials Chemistry C, 2019, 7, 13896-13903.	2.7	37
376	Exploration of Jute-HCP Composites Material for Building Environments. Journal of Natural Fibers, 2019, , 1-10.	1.7	1
377	Nanoscale thermal transport in epoxy matrix composite materials reinforced with carbon nanotubes and graphene nanoplatelets. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	10
378	3D extruded composite thermoelectric threads for flexible energy harvesting. Nature Communications, 2019, 10, 5590.	5.8	56
379	Further Enhancement of Thermal Conductivity through Optimal Uses of h-BN Fillers in Polymer-Based Thermal Interface Material for Power Electronics. , 2019, , .		3

#	Article	IF	Citations
380	The Numerical and Experimental Investigation of the Change of the Thermal Conductivity of Expanded Polystyrene at Different Temperatures and Densities. International Journal of Polymer Science, 2019, 2019, 1-9.	1.2	13
381	Graphene Composites. , 2019, 23, 57-63.		2
382	Enhanced positive temperature coefficient in amorphous PS/CSPEâ€MWCNT composites with low percolation threshold. Journal of Applied Polymer Science, 2019, 136, 47053.	1.3	12
383	Silica coating onto graphene for improving thermal conductivity and electrical insulation of graphene/polydimethylsiloxane nanocomposites. Journal of Materials Science and Technology, 2019, 35, 36-43.	5.6	65
384	A closed-form model for estimating the effective thermal conductivities of carbon nanotubeâ€“polymer nanocomposites. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 2909-2919.	1.1	16
385	Fabrication of a thermally conductive silicone composite by incorporating surface-modified boron nitride. Textile Reseach Journal, 2019, 89, 2637-2647.	1.1	6
386	Thermal conductivity improvement in electrically insulating silicone rubber composites by the construction of hybrid threeâ€dimensional filler networks with boron nitride and carbon nanotubes. Journal of Applied Polymer Science, 2019, 136, 46929.	1.3	40
387	Microstructure evolution effect on high-temperature thermal conductivity of LDPE/BNNS investigated by in-situ SAXS. Materials Letters, 2019, 234, 74-78.	1.3	65
388	Comparative Study of Single-Walled Carbon Nanotubes and Graphene Nanoplatelets for Improving the Thermal Conductivity and Solar-to-Light Conversion of PEG-Infiltrated Phase-Change Material Composites. ACS Sustainable Chemistry and Engineering, 2019, 7, 2446-2458.	3.2	67
389	Role of oxygen functional groups for improved performance of graphene-silicone composites as a thermal interface material. Carbon, 2019, 145, 131-139.	5.4	27
390	Combustion enhancement of hydroxyl-terminated polybutadiene by doping multiwall carbon nanotubes. Carbon, 2019, 144, 472-480.	5.4	24
391	Layerâ€byâ€Layer Assembled gâ€C₃N₄ Nanosheets/Cellulose Nanofibers Oriented Membraneâ€Filler Leading to Enhanced Thermal Conductivity. Advanced Materials Interfaces, 2019, 6, 1801406.	1.9	31
392	A review of the mechanical and thermal properties of graphene and its hybrid polymer nanocomposites for structural applications. Journal of Materials Science, 2019, 54, 5992-6026.	1.7	367
393	Ultra-high expansion linear polypropylene foams prepared in a semi-molten state under supercritical CO2. Journal of Supercritical Fluids, 2019, 145, 140-150.	1.6	62
394	Highly Thermally Conductive Yet Electrically Insulating Polymer/Boron Nitride Nanosheets Nanocomposite Films for Improved Thermal Management Capability. ACS Nano, 2019, 13, 337-345.	7.3	514
395	Liquid crystalline epoxy resin with improved thermal conductivity by intermolecular dipoleâ€“dipole interactions. Journal of Polymer Science Part A, 2019, 57, 708-715.	2.5	52
396	High-performance epoxy/binary spherical alumina composite as underfill material for electronic packaging. Composites Part A: Applied Science and Manufacturing, 2019, 118, 67-74.	3.8	99
397	Superior, processing-dependent thermal conductivity of cellulose Nanocrystal-Poly(vinyl alcohol) composite films. Polymer, 2019, 164, 17-25.	1.8	19

#	Article	IF	Citations
398	Large improvement of thermal transport and mechanical performance of polyvinyl alcohol composites based on interface enhanced by SiO2 nanoparticle-modified-hexagonal boron nitride. Composites Science and Technology, 2019, 169, 167-175.	3.8	80
399	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
400	Significantly enhanced thermal conductivity in polyvinyl alcohol composites enabled by dopamine modified graphene nanoplatelets. Composites Part A: Applied Science and Manufacturing, 2019, 117, 134-143.	3.8	76
401	Fabrication of Morphologically Controlled Composites with High Thermal Conductivity and Dielectric Performance from Aluminum Nanoflake and Recycled Plastic Package. ACS Applied Materials & Interfaces, 2019, 11, 3388-3399.	4.0	63
402	Thermosets containing benzoxazole units: Liquidâ€crystalline behavior and thermal conductivity. Polymers for Advanced Technologies, 2019, 30, 128-142.	1.6	9
403	Segregated double network enabled effective electromagnetic shielding composites with extraordinary electrical insulation and thermal conductivity. Composites Part A: Applied Science and Manufacturing, 2019, 117, 56-64.	3.8	80
404	Preparation of PMIA dielectric nanocomposite with enhanced thermal conductivity by filling with functionalized grapheneâ€“carbon nanotube hybrid fillers. Applied Nanoscience (Switzerland), 2019, 9, 1743-1757.	1.6	11
405	Selective localization of aluminum oxide at interface and its effect on thermal conductivity in polypropylene/polyolefin elastomer blends. Composites Part B: Engineering, 2019, 162, 662-670.	5.9	32
406	High-Thermal-Transport-Channel Construction within Flexible Composites via the Welding of Boron Nitride Nanosheets. ACS Applied Nano Materials, 2019, 2, 360-368.	2.4	78
407	Improvement in thermal conductivity of through-plane aligned boron nitride/silicone rubber composites. Materials and Design, 2019, 165, 107580.	3.3	119
408	A Review on Bioengineering Approaches to Insulin Delivery: A Pharmaceutical and Engineering Perspective. Macromolecular Bioscience, 2019, 19, e1800458.	2.1	36
409	New underfill material based on copper nanoparticles coated with silica for high thermally conductive and electrically insulating epoxy composites. Journal of Materials Science, 2019, 54, 6258-6271.	1.7	21
410	Recent advanced thermal interfacial materials: A review of conducting mechanisms and parameters of carbon materials. Carbon, 2019, 142, 445-460.	5.4	246
411	Thermal conductivity of 2D nano-structured boron nitride (BN) and its composites with polymers. Progress in Materials Science, 2019, 100, 170-186.	16.0	370
412	Thermal conductivity of shape memory polymer nanocomposites containing carbon nanotubes: A micromechanical approach. Composites Part B: Engineering, 2019, 162, 167-177.	5.9	54
413	Graphene-Based Nanomaterials and Their Polymer Nanocomposites. , 2019, , 177-216.		17
414	Buckling of Magnetically Formed Filler Fiber Columns Under Compression Increases Thermal Resistance of Soft Polymer Composites. Journal of Heat Transfer, 2019, 141, .	1.2	1
415	Enhanced thermal conductivity of silicon carbide nanowires (SiCw)/epoxy resin composite with segregated structure. Composites Part A: Applied Science and Manufacturing, 2019, 116, 98-105.	3.8	76

#	Article	IF	Citations
416	Poly(methyl methacrylate)â€functionalized reduced graphene oxideâ€based coreâ€“shell structured beads for thermally conductive epoxy composites. Journal of Applied Polymer Science, 2019, 136, 47377.	1.3	14
417	Constructing network structure of graphene nanoplatelets/carbon nanofibers in polystyrene and the resultant heat resistance, thermal and conductive properties. Composites Part A: Applied Science and Manufacturing, 2019, 117, 299-307.	3.8	15
418	High thermal conductive and fire retarded film based on phosphaphenanthrene functionalized graphene. Composites Part A: Applied Science and Manufacturing, 2019, 116, 72-78.	3.8	10
419	Shear thickening behavior and thermal properties of nanofluids with graphite fillers. Materials Research Express, 2019, 6, 015701.	0.8	3
420	Thermal conductivity enhancement of alumina/silicone rubber composites through constructing a thermally conductive 3D framework. Polymer Bulletin, 2020, 77, 2139-2153.	1.7	30
421	Tailoring the electrical and thermal conductivity of multi-component and multi-phase polymer composites. International Materials Reviews, 2020, 65, 129-163.	9.4	67
422	Casein phosphopeptide-biofunctionalized graphene oxide nanoplatelets based cellulose green nanocomposites with simultaneous high thermal conductivity and excellent flame retardancy. Chemical Engineering Journal, 2020, 382, 122733.	6.6	39
423	Studies on the mesophase formation mechanism of polybenzoxazines: polymerisation induction. Liquid Crystals, 2020, 47, 627-635.	0.9	2
424	Fast-cured UV-LED polymer materials filled with high mineral contents as wear-resistant, antibacterial coatings. Chemical Engineering Journal, 2020, 382, 122927.	6.6	15
425	Revealing the interrelation between hydrogen bonds and interfaces in graphene/PVA composites towards highly electrical conductivity. Chemical Engineering Journal, 2020, 383, 123126.	6.6	33
426	Flexible thermal interfacial materials with covalent bond connections for improving high thermal conductivity. Chemical Engineering Journal, 2020, 383, 123151.	6.6	72
427	Thermal Transport in 3D Nanostructures. Advanced Functional Materials, 2020, 30, 1903841.	7.8	83
428	Thermal Transport in Conductive Polymerâ€“Based Materials. Advanced Functional Materials, 2020, 30, 1904704.	7.8	122
429	Significantly enhanced thermal conductivity in polyimide composites with the matching of graphene flakes and aluminum nitride by in situ polymerization. Polymer Composites, 2020, 41, 740-747.	2.3	14
430	Mass production of high thermal conductive boron nitride/nanofibrillated cellulose composite membranes. Chemical Engineering Journal, 2020, 383, 123101.	6.6	57
431	Preparation of boron nitride nanosheets using a chemical exfoliation method as a thermal conductive filler for the development of silicone thermal composites Part I: effect of single- and hybrid-filler additions on the silicone composite performance. Textile Reseach Journal, 2020, 90, 666-684.	1.1	5
432	Flexible polyurethane/boron nitride composites with enhanced thermal conductivity. High Performance Polymers, 2020, 32, 324-333.	0.8	23
433	Thermally conductive highâ€density polyethylene as novel phaseâ€change material: Applicationâ€relevant longâ€term stability. Journal of Applied Polymer Science, 2020, 137, 48269.	1.3	8

#	Article	IF	Citations
434	Porous boron nitride/polyimide composite films with high thermal diffusivity and low dielectric properties via high internal phase Pickering emulsion method. Journal of Industrial and Engineering Chemistry, 2020, 82, 173-179.	2.9	31
435	Effects of heat transfer and the membrane thermal conductivity on the thermally nanofluidic salinity gradient energy conversion. Nano Energy, 2020, 67, 104284.	8.2	46
436	Fabrication of well dispersed poly(vinylidene fluoride)/expanded graphite/ionic liquid composites with improved properties by water-assisted mixing extrusion. Composites Science and Technology, 2020, 185, 107904.	3.8	6
437	Fundamental and innovative approaches for filler design of thermal interface materials based on epoxy resin for high power density electronics application: a retrospective. Multiscale and Multidisciplinary Modeling, Experiments and Design, 2020, 3, 103-129.	0.9	7
438	An additively manufactured novel polymer composite heat exchanger for dry cooling applications. International Journal of Heat and Mass Transfer, 2020, 147, 118889.	2.5	35
439	Frequent Offenders and Patterns of Injury. Clinics in Liver Disease, 2020, 24, 37-48.	1.0	3
440	Highly thermal conductive, anisotropically heat-transferred, mechanically flexible composite film by assembly of boron nitride nanosheets for thermal management. Composites Part B: Engineering, 2020, 180, 107569.	5.9	114
441	Highâ€efficient multifunctional selfâ€heating nanocompositeâ€based MWCNTs for energy applications. International Journal of Energy Research, 2020, 44, 1113-1124.	2.2	11
442	Wood annual ring structured elastomer composites with high thermal conduction enhancement efficiency. Chemical Engineering Journal, 2020, 389, 123467.	6.6	41
443	Combustion synthesis of wellâ€dispersed rodâ€like Î²â€Si₃N₄ crystals by the addition of carbon. Journal of the American Ceramic Society, 2020, 103, 757-761.	1.9	8
444	Thermal, Electrical and Mechanical Properties of Expanded Graphite and Micro-SiC Filled Hybrid Epoxy Composite for Electronic Packaging Applications. Journal of Electronic Materials, 2020, 49, 212-225.	1.0	18
445	Design of network Al2O3 spheres for significantly enhanced thermal conductivity of polymer composites. Composites Part A: Applied Science and Manufacturing, 2020, 128, 105673.	3.8	72
446	Achieving electrical insulation, high thermal conductivity and high fracture toughness in polyamide 6/carbon nanofiber composites through the interfacial welding effect of elastomer. Composites Part A: Applied Science and Manufacturing, 2020, 128, 105671.	3.8	24
447	Research on nozzle and needle combination for high frequency piezostack-driven dispenser. International Journal of Adhesion and Adhesives, 2020, 96, 102453.	1.4	5
448	Process-directed self-assembly of copolymers: Results of and challenges for simulation studies. Progress in Polymer Science, 2020, 101, 101198.	11.8	53
449	Efficient Thermal Transport Highway Construction Within Epoxy Matrix via Hybrid Carbon Fibers and Alumina Particles. ACS Omega, 2020, 5, 1170-1177.	1.6	39
450	Highly Thermally Conductive Polyimide Composite Films with Excellent Thermal and Electrical Insulating Properties. Industrial & Engineering Chemistry Research, 2020, 59, 1925-1933.	1.8	52
451	A small amount of delaminated Ti3C2 flakes to greatly enhance the thermal conductivity of boron nitride papers by assembling a well-designed interface. Materials Chemistry Frontiers, 2020, 4, 292-301.	3.2	32

#	Article	IF	Citations
452	Significant enhancement of thermal conductivity in graphite/polyester composite via interfacial Ï€â€“Ï€ interaction. Polymer International, 2020, 69, 346-354.	1.6	2
453	Composites from recycled polyethylene and plasma treated kapok fibers. Cellulose, 2020, 27, 2115-2134.	2.4	15
454	Tuning of polyurethane foam mechanical and thermal properties using ball-milled cellulose. Carbohydrate Polymers, 2020, 231, 115772.	5.1	53
455	Self-constructing thermal conductive filler network via reaction-induced phase separation in BNNSs/epoxy/polyetherimide composites. Composites Part A: Applied Science and Manufacturing, 2020, 130, 105727.	3.8	33
456	Multifunctional 3D-MXene/PDMS nanocomposites for electrical, thermal and triboelectric applications. Composites Part A: Applied Science and Manufacturing, 2020, 130, 105754.	3.8	132
457	Polymer composites with high thermal conductivity optimized by polyline-folded graphite paper. Composites Science and Technology, 2020, 188, 107970.	3.8	23
458	Epoxy Nanocomposites with Reduced Graphene Oxide-Constructed Three-Dimensional Networks of Single Wall Carbon Nanotube for Enhanced Thermal Management Capability with Low Filler Loading. ACS Applied Materials & Interfaces, 2020, 12, 3051-3058.	4.0	54
459	Highly thermally conductive polystyrene/polypropylene/boron nitride composites with 3D segregated structure prepared by solution-mixing and hot-pressing method. Chemical Engineering Journal, 2020, 385, 123829.	6.6	85
460	Hybrid percolation network in composite for selectively enhancing electrical and thermal conductivities. International Journal of Heat and Mass Transfer, 2020, 147, 119014.	2.5	9
461	Effects of selective distribution of alumina micro-particles on rheological, mechanical and thermal conductive properties of asphalt/SBS/alumina composites. Composites Science and Technology, 2020, 186, 107917.	3.8	30
462	Thermal conductive hybrid polyimide with ultrahigh heat resistance, excellent mechanical properties and low coefficient of thermal expansion. European Polymer Journal, 2020, 122, 109368.	2.6	24
463	Dualâ€direction high thermal conductivity polymer composites with outstanding electrical insulation and electromagnetic shielding performance. Polymer Composites, 2020, 41, 1673-1682.	2.3	14
464	Improved thermal conductivity of epoxy resin by grapheneâ€“nickel three-dimensional filler. Carbon Resources Conversion, 2020, 3, 29-35.	3.2	19
465	Metal-Filled Epoxy Composites: Mechanical Properties and Electrical/Thermal Conductivity. Journal of Macromolecular Science - Physics, 2020, 59, 121-136.	0.4	21
466	Robust polymer-based paper-like thermal interface materials with a through-plane thermal conductivity over 9ÂWmâ^'1Kâ^'1. Chemical Engineering Journal, 2020, 392, 123784.	6.6	66
467	Clays and carbon nanotubes as hybrid nanofillers in thermoplastic-based nanocomposites â€“ A review. Applied Clay Science, 2020, 185, 105408.	2.6	81
468	Self-Assembled Boron Nitride Nanotube Reinforced Graphene Oxide Aerogels for Dielectric Nanocomposites with High Thermal Management Capability. ACS Applied Materials & Interfaces, 2020, 12, 1436-1443.	4.0	51
469	Study of the synergistic effect of boron nitride and carbon nanotubes in the improvement of thermal conductivity of epoxy composites. Polymer International, 2020, 69, 280-290.	1.6	11

#	Article	IF	Citations
470	Unprecedentedly high thermal conductivity of carbon/epoxy composites derived from parameter optimization studies. Composites Science and Technology, 2020, 186, 107915.	3.8	22
471	Trends in Polymers 2017/2018: Polymer Synthesis. Polymers, 2020, 12, 39.	2.0	2
472	Synergistic improvement for mechanical, thermal and optical properties of PVA-co-PE nanofiber/epoxy composites with cellulose nanocrystals. Composites Science and Technology, 2020, 188, 107990.	3.8	21
473	Thermally conducting polymer/nanocarbon and polymer/inorganic nanoparticle nanocomposite: a review. Polymer-Plastics Technology and Materials, 2020, 59, 895-909.	0.6	22
474	Enhanced through-plane thermal conductivity of paper-like cellulose film with treated hybrid fillers comprising boron nitride and aluminum nitride. Composites Science and Technology, 2020, 200, 108424.	3.8	49
475	Bridging boron nitride nanosheets with oriented carbon nanotubes by electrospinning for the fabrication of thermal conductivity enhanced flexible nanocomposites. Composites Science and Technology, 2020, 200, 108429.	3.8	46
476	Recent advances in polymer-based thermal interface materials for thermal management: A mini-review. Composites Communications, 2020, 22, 100528.	3.3	91
477	Machine-learning-driven discovery of polymers molecular structures with high thermal conductivity. International Journal of Heat and Mass Transfer, 2020, 162, 120381.	2.5	33
478	Thermally enhanced polyolefin composites: fundamentals, progress, challenges, and prospects. Science and Technology of Advanced Materials, 2020, 21, 737-766.	2.8	16
479	Nanocellulose as a Sustainable Building Block to Construct Eco-Friendly Thermally Conductive Composites. Industrial & Engineering Chemistry Research, 2020, 59, 19465-19484.	1.8	17
480	Highly thermally conductive UHMWPE/NG composites with the segregated structure and their application for heat spreader. Journal of Thermoplastic Composite Materials, 2020, , 089270572096564.	2.6	0
481	Double core shell structured Al@Al2O3@SiO2 filled epoxy composites for thermal management application. Applied Physics Letters, 2020, 117, .	1.5	12
482	Recent progress on thermally conductive and electrical insulating rubber composites: Design, processing and applications. Composites Communications, 2020, 22, 100430.	3.3	60
483	Review of z-pinned laminates and sandwich composites. Composites Part A: Applied Science and Manufacturing, 2020, 139, 106128.	3.8	88
484	Thermally enhanced pristine polyolefins: fundamentals, progress and prospective. Journal of Materials Research and Technology, 2020, 9, 10796-10806.	2.6	22
485	Three-dimensional interconnected networks for thermally conductive polymer composites: Design, preparation, properties, and mechanisms. Materials Science and Engineering Reports, 2020, 142, 100580.	14.8	261
486	A high performance wearable strain sensor with advanced thermal management for motion monitoring. Nature Communications, 2020, 11, 3530.	5.8	313
487	Optimal analysis for thermal conductivity variation of EVA/SCF composites prepared by spatial confining forced network assembly. Materials Today Communications, 2020, 25, 101206.	0.9	17

#	Article	IF	Citations
488	Enhanced thermal conductivity of a polysilazane-coated A-BN/epoxy composite following surface treatment with silane coupling agents. Applied Surface Science, 2020, 529, 147091.	3.1	30
489	Simultaneously Improved Thermal and Dielectric Performance of Epoxy Composites Containing Ti3C2Tx Platelet Fillers. Polymers, 2020, 12, 1608.	2.0	11
490	A comprehensive review on mechanical, electromagnetic radiation shielding, and thermal conductivity of fibers/inorganic fillers reinforced hybrid polymer composites. Polymer Composites, 2020, 41, 3940-3965.	2.3	179
491	Thermal Properties of Binary Filler Hybrid Composite with Graphene Oxide and Pyrolyzed Silicon-Coated Boron Nitride. Polymers, 2020, 12, 2553.	2.0	7
492	Influence of reactive compatibilization on the mechanical, thermal and rheological properties of highly filled PBT/Al2O3 composites. Materials and Design, 2020, 196, 109175.	3.3	11
493	Molecular Dynamics Simulation-Based Study on Enhancing Thermal Properties of Graphene-Reinforced Thermoplastic Polyurethane Nanocomposite for Heat Exchanger Materials. , 0, , .		3
494	A detailed characterization of sandalwood-filled high-density polyethylene composites. Journal of Thermoplastic Composite Materials, 2022, 35, 1903-1920.	2.6	4
495	High thermal conductivity of epoxy composites via micro-zone enhanced 3D interconnected nickel skeleton. Ceramics International, 2020, 46, 27531-27538.	2.3	18
496	Designing high thermal conductivity of cross-linked epoxy resin via molecular dynamics simulations. Physical Chemistry Chemical Physics, 2020, 22, 19735-19745.	1.3	24
497	Experimental Study on Heat Dissipative Ability in Recycled Thermoplastic Vulcanizate and Reclaimed Rubber Composites. Key Engineering Materials, 2020, 856, 276-285.	0.4	1
498	Rational design of nanohybrids for highly thermally conductive polymer composites. Composites Communications, 2020, 21, 100427.	3.3	38
499	Synergetic enhancement of thermal conductivity by constructing BN and AlN hybrid network in epoxy matrix. Journal of Polymer Research, 2020, 27, 1.	1.2	27
500	Thermal conductive epoxy adhesive with binary filler system of surface modified hexagonal boron nitride and Î±-aluminum oxide. Journal of Materials Science: Materials in Electronics, 2020, 31, 14681-14690.	1.1	9
501	Effect of hydroxylated carbon nanotubes on the thermal and electrical properties of derived epoxy composite materials. Results in Physics, 2020, 18, 103246.	2.0	20
502	Characterization of Wear and Physical Properties of Pawpawâ€“Glass Fiber Hybrid Reinforced Epoxy Composites for Structural Application. Fibers, 2020, 8, 44.	1.8	14
503	Covalently linked polydopamine-modified boron nitride nanosheets/polyimide composite fibers with enhanced heat diffusion and mechanical behaviors. Composites Part B: Engineering, 2020, 199, 108281.	5.9	37
504	An elegant coupling: Freeze-casting and versatile polymer composites. Progress in Polymer Science, 2020, 109, 101289.	11.8	69
505	SCF-NiFe2O4/epoxy composites with high thermal conductivity and electromagnetic interference resistance. Journal of Materials Science: Materials in Electronics, 2020, 31, 21325-21334.	1.1	4

#	Article	IF	Citations
506	The novel application of nonmetals from waste printed circuit board in high-performance thermal management materials. Composites Part A: Applied Science and Manufacturing, 2020, 139, 106096.	3.8	8
507	Properties of AlN-MWCNTs/epoxy Nanocomposites. IOP Conference Series: Materials Science and Engineering, 2020, 758, 012034.	0.3	0
508	Amino multi-walled carbon nanotubes further improve the thermal conductivity of boron nitride/liquid crystal epoxy resin composites. EXPRESS Polymer Letters, 2020, 14, 1169-1179.	1.1	13
509	Significantly enhanced thermal conductivity and flame retardance by silicon carbide nanowires/graphene oxide hybrid network. Composites Part A: Applied Science and Manufacturing, 2020, 139, 106093.	3.8	7
510	Investigation on a novel polysilylaryl-enyne/Ca0.7La0Â·2TiO3 composite with an ultra-high dielectric constant and excellent temperature resistance. Composites Science and Technology, 2020, 200, 108447.	3.8	13
511	Underlying physics and basic approaches to thermal transport in solids. , 2020, , 3-31.		0
512	Compostable, fully biobased foams using PLA and micro cellulose for zero energy buildings. Scientific Reports, 2020, 10, 17771.	1.6	24
513	Facile Fabrication of Silicon Carbide Spheres and Its Application in Polymer Composites with Enhanced Thermal Conductivity. , 2020, , .		1
514	Artificial Nacre Epoxy Nanomaterials Based on Janus Graphene Oxide for Thermal Management Applications. ACS Applied Materials & Interfaces, 2020, 12, 44273-44280.	4.0	26
515	Flexible Graphene Nanocomposites with Simultaneous Highly Anisotropic Thermal and Electrical Conductivities Prepared by Engineered Graphene with Flat Morphology. ACS Nano, 2020, 14, 11733-11742.	7.3	130
516	Viscosity and thermal kinetics of 10 preheated restorative resin composites and effect of ultrasound energy on film thickness. Dental Materials, 2020, 36, 1356-1364.	1.6	36
517	Lightweight Porous Polystyrene with High Thermal Conductivity by Constructing 3D Interconnected Network of Boron Nitride Nanosheets. ACS Applied Materials & Interfaces, 2020, 12, 46767-46778.	4.0	85
518	Effect of Moisture on the Thermal Conductivity of Cellulose and Aramid Paper Impregnated with Various Dielectric Liquids. Energies, 2020, 13, 4433.	1.6	16
519	Homeotropically Aligned Monodomain-like Smectic-A Structure in Liquid Crystalline Epoxy Films: Analysis of the Local Ordering Structure by Microbeam Small-Angle X-ray Scattering. ACS Omega, 2020, 5, 20792-20799.	1.6	7
520	Improving Properties of Poly(vinylidene fluoride) by Adding Expanded Graphite without Surface Modification via Waterâ€Assisted Mixing Extrusion. Macromolecular Materials and Engineering, 2020, 305, 2000270.	1.7	6
521	Thermal Properties of Copper Particles-filled Polypropylene Composites. , 2020, , .		0
522	Anisotropic and high thermal conductivity of epoxy composites containing multilayer Ti3C2Tx MXene nanoflakes. Journal of Materials Science, 2020, 55, 16533-16543.	1.7	16
523	Preparation of thermally conductive polycarbonate/boron nitride composites with balanced mechanical properties. Polymer Composites, 2020, 41, 5418-5427.	2.3	18

#	Article	IF	Citations
524	Enhancing thermal conductivity of polyimide composite film by electrostatic self-assembly and two-step synergism of Al₂O₃ microspheres and BN nanosheets. RSC Advances, 2020, 10, 42584-42595.	1.7	29
525	Increasing heat transfer performance of thermoplastic polyurethane by constructing thermal conduction channels of ultra-thin boron nitride nanosheets and carbon nanotubes. New Journal of Chemistry, 2020, 44, 18823-18830.	1.4	10
526	Thermal conductivity enhancement via conductive network conversion from â€œsand-likeâ€•to â€œstone-likeâ€•in the polydimethylsiloxane composites. Composites Communications, 2020, 22, 100509.	3.3	25
527	Thermally conductive, mechanically strong dielectric film made from aramid nanofiber and edge-hydroxylated boron nitride nanosheet for thermal management applications. Composite Interfaces, 2020, , 1-14.	1.3	12
528	Effects of modified graphene on property optimization in thermal conductive composites based on PPS/PA6 blend. Soft Materials, 2021, 19, 457-467.	0.8	7
529	Recent Advances in Preparation, Mechanisms, and Applications of Thermally Conductive Polymer Composites: A Review. Journal of Composites Science, 2020, 4, 180.	1.4	53
530	Modelling of Effective Thermal Conductivity of Composites Filled with Core-Shell Fillers. Materials, 2020, 13, 5480.	1.3	7
531	A Multidirectionally Thermoconductive Phase Change Material Enables High and Durable Electricity via Real-Environment Solarâ€“Thermalâ€“Electric Conversion. ACS Nano, 2020, 14, 15738-15747.	7.3	152
532	Experimental and numerical study of the laser transmission welding between PA6/sepiolite nanocomposites and PLA. Engineering Fracture Mechanics, 2020, 238, 107277.	2.0	7
533	Improved thermal conductivity and AC dielectric breakdown strength of silicone rubber/BN composites. Composites Part C: Open Access, 2020, 2, 100023.	1.5	9
534	Properties of Graphene-Related Materials Controlling the Thermal Conductivity of Their Polymer Nanocomposites. Nanomaterials, 2020, 10, 2167.	1.9	20
535	Dielectric Spectroscopy and Thermal Properties of Poly(lactic) Acid Reinforced with Carbon-Based Particles: Experimental Study and Design Theory. Polymers, 2020, 12, 2414.	2.0	13
536	Silicone Resin-Based Composite Materials for High Thermal Stability and Thermal Conductivity. Journal of Electronic Materials, 2020, 49, 4379-4384.	1.0	6
537	Jelly-Inspired Construction of the Three-Dimensional Interconnected BN Network for Lightweight, Thermally Conductive, and Electrically Insulating Rubber Composites. ACS Applied Electronic Materials, 2020, 2, 1661-1669.	2.0	83
538	Enhanced thermal conductivity of natural rubber based thermal interfacial materials by constructing covalent bonds and three-dimensional networks. Composites Part A: Applied Science and Manufacturing, 2020, 135, 105928.	3.8	64
539	Colossal thermoelectric enhancement in Cu_{2+x}Zn_{1â^'x}SnS₄ solid solution by local disordering of crystal lattice and multi-scale defect engineering. Journal of Materials Chemistry A, 2020, 8, 10909-10916.	5.2	27
540	Adhesion between thermoplastic elastomers and polyamideâ€12 with different glass fiber fractions in twoâ€component injection molding. Polymer Engineering and Science, 2020, 60, 1642-1661.	1.5	9
541	Synergistic Enhanced Thermal Conductivity of Epoxy Composites with Boron Nitride Nanosheets and Microspheres. Journal of Physical Chemistry C, 2020, 124, 12723-12733.	1.5	71

#	Article	IF	Citations
542	In-situ X-ray scattering study of isotactic polypropylene/graphene nanocomposites under shear during fused deposition modeling 3D printing. Composites Science and Technology, 2020, 196, 108227.	3.8	37
543	Cross-Plane and In-Plane Heat Conductions in Layer-by-Layer Membrane: Molecular Dynamics Study. Langmuir, 2020, 36, 6482-6493.	1.6	19
544	Highly Flexible Graphene Derivative Hybrid Film: An Outstanding Nonflammable Thermally Conductive yet Electrically Insulating Material for Efficient Thermal Management. ACS Applied Materials & Interfaces, 2020, 12, 26413-26423.	4.0	38
545	Pathways for Alkali Ion Transport in Mold Compounds. ECS Journal of Solid State Science and Technology, 2020, 9, 053001.	0.9	2
546	Shape memory hybrid based on polyvinyl alcohol and 0D silver nanoparticles. Polymer Testing, 2020, 90, 106668.	2.3	1
547	A novel super thermal insulation material: bamboo-like polymer nanotubes. Nanotechnology, 2020, 31, 345702.	1.3	3
548	Effect of microstructural features on the thermal conducting behavior of carbon nanofiberâ€“reinforced styrene-based shape memory polymer composites. Journal of Intelligent Material Systems and Structures, 2020, 31, 1716-1730.	1.4	4
549	Improvement of the Heat-Dissipating Performance of Powder Coating with Graphene. Polymers, 2020, 12, 1321.	2.0	10
550	Covalent coupling regulated thermal conductivity of poly(vinyl alcohol)/boron nitride composite film based on silane molecular structure. Composites Part A: Applied Science and Manufacturing, 2020, 137, 106026.	3.8	33
551	Tailoring of Siâ€“Câ€“Nâ€“O ceramic-coated reduced graphene oxide by oil/water-solution process for high thermal conductive epoxy composite with electrical insulation. Composites Science and Technology, 2020, 197, 108257.	3.8	20
552	Thermal Conductivity of Polypropylene-Based Materials. , 0, , .		17
553	The Role of Polyethylene Wax on the Thermal Conductivity of Transparent Ultradrawn Polyethylene Films. Macromolecules, 2020, 53, 5599-5603.	2.2	15
554	An overview on alumina-silica-based aerogels. Advances in Colloid and Interface Science, 2020, 282, 102189.	7.0	50
555	Enhancing the Thermo-Mechanical Property of Polymer by Weaving and Mixing High Lengthâ€“Diameter Ratio Filler. Polymers, 2020, 12, 1255.	2.0	2
556	Vertically aligned silicon carbide nanowires/reduced graphene oxide networks for enhancing the thermal conductivity of silicone rubber composites. Composites Part A: Applied Science and Manufacturing, 2020, 133, 105873.	3.8	87
557	Homogeneously dispersed urchin-structured Fe3O4 with graphitic carbon spines inside poly(vinylidene fluoride) for efficient thermal conduction. Composites Science and Technology, 2020, 192, 108106.	3.8	5
558	The effect of particle size, mixing conditions and agglomerates on thermal conductivity of BN-polyester & multi-sized BN-hybrid composites for use in micro-electronics. Materials Today: Proceedings, 2020, 26, 3187-3192.	0.9	3
559	Salt Template Assisted BN Scaffold Fabrication toward Highly Thermally Conductive Epoxy Composites. ACS Applied Materials & Interfaces, 2020, 12, 16987-16996.	4.0	117

#	Article	IF	Citations
560	Factors affecting thermal conductivities of the polymers and polymer composites: A review. Composites Science and Technology, 2020, 193, 108134.	3.8	434
561	Thermal Diffusivity and Thermal Effusivity Enhancement of Graphene based Polyvinyl Chloride Nanocomposites. IOP Conference Series: Materials Science and Engineering, 2020, 762, 012006.	0.3	4
562	An anisotropic layer-by-layer carbon nanotube/boron nitride/rubber composite and its application in electromagnetic shielding. Nanoscale, 2020, 12, 7782-7791.	2.8	68
563	Enhanced thermal conductivity of epoxy composites by introducing graphene@boron nitride nanosheets hybrid nanoparticles. Materials and Design, 2020, 191, 108663.	3.3	111
564	Conductive epoxy nanocomposite with self-supporting networks of silver@carbon nanocable sponge and improved properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 6488-6496.	1.1	1
565	On investigations of thermal conductivity, circumferential compressive strength, and surface characterization of 3D-printed hybrid blended magnetostrictive PLA composite. Journal of Thermoplastic Composite Materials, 2022, 35, 631-650.	2.6	19
566	Engineering thermally and electrically conductive biodegradable polymer nanocomposites. Composites Part B: Engineering, 2020, 189, 107905.	5.9	56
567	Nanocelluloses and Related Materials Applicable in Thermal Management of Electronic Devices: A Review. Nanomaterials, 2020, 10, 448.	1.9	27
568	Enhanced thermal conductivity of epoxy composites by constructing aluminum nitride honeycomb reinforcements. Composites Science and Technology, 2020, 199, 108304.	3.8	90
569	Design and synthesis of poly(arylene ether sulfone)s with high glass transition temperature by introducing biphenylene groups. Polymer International, 2020, 69, 1267-1274.	1.6	9
570	Enhanced Functional Properties of Low-Density Polyethylene Nanocomposites Containing Hybrid Fillers of Multi-Walled Carbon Nanotubes and Nano Carbon Black. Polymers, 2020, 12, 1356.	2.0	17
571	Utilization of Polypropylene in the Production of Metal-Filled Polymer Composites: Development and Characteristics. Materials, 2020, 13, 2856.	1.3	10
572	Concurrently enhanced dielectric properties and thermal conductivity in PVDF composites with core-shell structured Î²-SiCw@SiO2 whiskers. Composites Part A: Applied Science and Manufacturing, 2020, 137, 106021.	3.8	45
573	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
574	Enhanced thermal conductivity in polyamide 6 composites based on the compatibilization effect of polyether-grafted graphene. Composites Science and Technology, 2020, 199, 108340.	3.8	19
575	Preparation of boron nitride nanosheets using a chemical exfoliation method as a thermal conductive filler for the development of silicone thermal pads: Part II: Optimization of process parameter design on the development of a silicone thermal pad. Textile Reseach Journal, 2020, 90, 1891-1905.	1.1	2
576	Acrylic Pressure-Sensitive Adhesive Reinforced with Aluminum Nitride and Its Thermal Properties: Effect of Surface Treatment and Particle Size. Coatings, 2020, 10, 188.	1.2	6
577	Biphenyl liquid crystal epoxy containing flexible chain: Synthesis and thermal properties. Journal of Applied Polymer Science, 2020, 137, 49143.	1.3	25

#	Article	IF	Citations
578	Thermal conductivity enhancement of PLA/TPU/BN composites by controlling BN distribution and annealing treatment. Plastics, Rubber and Composites, 2020, 49, 204-213.	0.9	20
579	Constructing a Layer-by-Layer Architecture to Prepare a Transparent, Strong, and Thermally Conductive Boron Nitride Nanosheet/Cellulose Nanofiber Multilayer Film. Industrial & Engineering Chemistry Research, 2020, 59, 4437-4446.	1.8	19
580	Preparation, characterization, and thermal conductivity of polyvinyl-formaldehyde/MWCNTs foam: A low cost heat sink substrate. Journal of Materials Research and Technology, 2020, 9, 2934-2945.	2.6	20
581	High-Loading Boron Nitride-Based Bio-Inspired Paper with Plastic-like Ductility and Metal-like Thermal Conductivity. ACS Applied Materials & Interfaces, 2020, 12, 13156-13164.	4.0	36
582	Enhancing thermal conductivity of the insulating layer of high-frequency copper clad laminates via incorporating surface modified spherical hBN fillers. Journal of Materials Science: Materials in Electronics, 2020, 31, 4214-4223.	1.1	11
583	Increased through-plane thermal conductivity of injection moulded thermoplastic composites by manipulation of filler orientation. Plastics, Rubber and Composites, 2022, 51, 110-117.	0.9	3
584	Thermal Transport in Graphene Oxide Films: Theoretical Analysis and Molecular Dynamics Simulation. Nanomaterials, 2020, 10, 285.	1.9	12
585	CFD investigation of the feasibility of polymer-based microchannel heat sink as thermal solution. Chinese Journal of Chemical Engineering, 2020, 28, 980-994.	1.7	9
586	Spherical fillerâ€promoting thermally conductive pathway in graphiteâ€contained polymer composites for high heat radiation. Journal of Polymer Science, 2020, 58, 607-615.	2.0	6
587	Promising PVC/MXene based flexible thin film nanocomposites with excellent dielectric, thermal and mechanical properties. Ceramics International, 2020, 46, 12593-12605.	2.3	67
588	Highly Thermoconductive, Thermostable, and Superâ€Flexible Film by Engineering 1D Rigid Rodâ€Like Aramid Nanofiber/2D Boron Nitride Nanosheets. Advanced Materials, 2020, 32, e1906939.	11.1	234
589	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
590	Simultaneously enhance thermal conductive property and mechanical properties of silicon rubber composites by introducing ultrafine Al2O3 nanospheres prepared via thermal plasma. Composites Science and Technology, 2020, 190, 108019.	3.8	44
591	High-efficiency improvement of thermal conductivities for epoxy composites from synthesized liquid crystal epoxy followed by doping BN fillers. Composites Part B: Engineering, 2020, 185, 107784.	5.9	137
592	Preparation of exfoliated graphite-based polyethylene composites with enhanced thermal conductivity. Soft Materials, 2020, 18, 461-470.	0.8	3
593	Effective thermal conductivity of 3D-printed continuous fiber polymer composites. Advanced Manufacturing: Polymer and Composites Science, 2020, 6, 17-28.	0.2	13
594	In situ Polymerization of Polyamide 6/Boron Nitride Composites to Enhance Thermal Conductivity and Mechanical Properties via Boron Nitride Covalently Grafted Polyamide 6. Polymer Engineering and Science, 2020, 60, 710-716.	1.5	16
595	High thermal conductivity in polydimethylsiloxane composite with vertically oriented graphene nanosheets by liquid-phase exfoliation. Chemical Physics Letters, 2020, 743, 137156.	1.2	9

#	Article	IF	Citations
596	Highly thermally conductive electrospun stereocomplex polylactide fibrous film dip-coated with silver nanowires. Polymer, 2020, 194, 122390.	1.8	25
597	Intrinsically self-healable, stretchable thermoelectric materials with a large ionic Seebeck effect. Energy and Environmental Science, 2020, 13, 2915-2923.	15.6	113
598	The Emergent Behaviour of Thermal Networks and Its Impact on the Thermal Conductivity of Heterogeneous Materials and Systems. Journal of Composites Science, 2020, 4, 32.	1.4	1
599	Highly thermally conductive polypropylene/graphene composites for thermal management. Composites Part A: Applied Science and Manufacturing, 2020, 135, 105912.	3.8	97
600	Ice-Templated MXene/Agâ€“Epoxy Nanocomposites as High-Performance Thermal Management Materials. ACS Applied Materials & Interfaces, 2020, 12, 24298-24307.	4.0	117
601	Bioinspired construction of BN@polydopamine@Al2O3 fillers for preparation of a polyimide dielectric composite with enhanced thermal conductivity and breakdown strength. Journal of Materials Science, 2020, 55, 8170-8184.	1.7	44
602	Extremely high thermal conductivity of carbon fiber/epoxy with synergistic effect of MXenes by freeze-drying. Composites Communications, 2020, 19, 134-141.	3.3	81
603	The effect of the molecular weight and polydispersity index on the thermal conductivity of Polyamide 6: A molecular dynamics study. International Journal of Heat and Mass Transfer, 2020, 154, 119487.	2.5	10
604	Polymer Thermoelectrics: Opportunities and Challenges. Macromolecules, 2020, 53, 3632-3642.	2.2	66
605	Recent Advances on Thermal Management of Flexible Inorganic Electronics. Micromachines, 2020, 11, 390.	1.4	4
606	Synergistic Effects of Hybrid Carbonaceous Fillers of Carbon Fibers and Reduced Graphene Oxides on Enhanced Heat-Dissipation Capability of Polymer Composites. Polymers, 2020, 12, 909.	2.0	6
607	High Thermal Conductivity Enhancement of Polymer Composites with Vertically Aligned Silicon Carbide Sheet Scaffolds. ACS Applied Materials & Interfaces, 2020, 12, 23388-23398.	4.0	69
608	Vertically aligned dopamine-reduced graphene oxide with high thermal conductivity for epoxy nanocomposites. Journal of Materials Science, 2020, 55, 8917-8929.	1.7	9
609	Preparation of Three-Dimensional Carbon Network Reinforced Epoxy Composites and Their Thermal Conductivity. Transactions of Tianjin University, 2020, 26, 399-408.	3.3	2
610	Achieving a high thermal conductivity for segregated <scp>BN</scp>/<scp>PLA</scp> composites via hydrogen bonding regulation through cellulose network. Polymers for Advanced Technologies, 2020, 31, 1911-1920.	1.6	20
611	Enhancement of Thermal Boundary Conductance of Metalâ€“Polymer System. Nanomaterials, 2020, 10, 670.	1.9	20
612	Construction of â€œcoreâ€“shellâ€•structure for improved thermal conductivity and mechanical properties of polyamide 6 composites. Polymer Bulletin, 2021, 78, 2791-2803.	1.7	0
613	Enhancement of thermal conductivity and dimensional stability of polyimide/boron nitride films through mechanochemistry. Composites Communications, 2021, 23, 100549.	3.3	51

#	Article	IF	Citations
614	Evaluation of thermal conductivity of organic phase-change materials from equilibrium and non-equilibrium computer simulations: Paraffin as a test case. International Journal of Heat and Mass Transfer, 2021, 165, 120639.	2.5	30
615	A numerical modelling for resin transfer molding (RTM) process and effective thermal conductivity prediction of a particleâ€“filled composite carbonâ€“epoxy. Journal of Composite Materials, 2021, 55, 3-15.	1.2	8
616	Selfâ€healable and reprocessible liquid crystalline elastomer and its highly thermal conductive composites by incorporating graphene via inâ€situ polymerization. Journal of Applied Polymer Science, 2021, 138, 49748.	1.3	10
617	Enhanced thermal conductivity of epoxy/alumina composite through multiscale-disperse packing. Journal of Composite Materials, 2021, 55, 17-25.	1.2	19
618	Multilayered ultrahigh molecular weight polyethylene/natural graphite/boron nitride composites with enhanced thermal conductivity and electrical insulation by hot compression. Journal of Applied Polymer Science, 2021, 138, 49938.	1.3	8
619	Utilization of devulcanized waste rubber tire in development of heat insulation composite. Journal of Cleaner Production, 2021, 280, 124492.	4.6	23
620	Phase morphology evolution and thermally conductive networks of immiscible polymer blends. Journal of Applied Polymer Science, 2021, 138, 49969.	1.3	5
621	Carbon nanotube, graphene oxide and montmorillonite as conductive fillers in polymer electrolyte membrane for fuel cell: an overview. International Journal of Energy Research, 2021, 45, 1309-1346.	2.2	41
622	Highly flame-retardant epoxy-based thermal conductive composites with functionalized boron nitride nanosheets exfoliated by one-step ball milling. Chemical Engineering Journal, 2021, 407, 127099.	6.6	131
623	Highly thermally conductive phase change composites with excellent solar-thermal conversion efficiency and satisfactory shape stability on the basis of high-quality graphene-based aerogels. Composites Science and Technology, 2021, 201, 108492.	3.8	72
624	Glycine functionalized boron nitride nanosheets with improved dispersibility and enhanced interaction with matrix for thermal composites. Chemical Engineering Journal, 2021, 408, 127360.	6.6	57
625	Effects and mechanism of filler surface coating strategy on thermal conductivity of composites: A case study on epoxy/SiO2-coated BN composites. International Journal of Heat and Mass Transfer, 2021, 164, 120533.	2.5	16
626	Highly thermally conductive yet mechanically robust composites with nacre-mimetic structure prepared by evaporation-induced self-assembly approach. Chemical Engineering Journal, 2021, 405, 126865.	6.6	34
627	Properties of thermally conductive silicone rubbers filled with admicellar polymerized polypyrroleâ€coated<scp>Al₂O₃</scp>particles. Journal of Applied Polymer Science, 2021, 138, 50205.	1.3	14
628	The flexible film of SCF/BN/PDMS composites with high thermal conductivity and electrical insulation. Composites Communications, 2021, 23, 100573.	3.3	26
629	Metal-graphene-synergized melamine aerogel with robust elasticity and flame-retardancy for thermal-insulated-packaging industry. Composites Part A: Applied Science and Manufacturing, 2021, 140, 106195.	3.8	11
630	Facile strategy to improve thermal conductivity of anisotropic poly(butylene succinate) phosphorusâ€containing ionomer films via compression molding. Polymers for Advanced Technologies, 2021, 32, 1194-1204.	1.6	2
631	Enhanced mechanical and anisotropic thermal conductive properties of polyimide nanocomposite films reinforced with hexagonal boron nitride nanosheets. Journal of Applied Polymer Science, 2021, 138, 50324.	1.3	19

#	Article	IF	Citations
632	A review of silicon-based aerogel thermal insulation materials: Performance optimization through composition and microstructure. Journal of Non-Crystalline Solids, 2021, 553, 120517.	1.5	62
633	Highly thermally conductive, superior flexible and surface metallisable boron nitride paper fabricated by a facile and scalable approach. Composites Communications, 2021, 23, 100584.	3.3	9
634	Understanding interfacial influence on properties of polymer nanocomposites. Surfaces and Interfaces, 2021, 22, 100879.	1.5	83
635	Combining Alumina Particles with Three-Dimensional Alumina Foam for High Thermally Conductive Epoxy Composites. ACS Applied Polymer Materials, 2021, 3, 216-225.	2.0	45
636	Enhanced thermal conductivity and electrically insulating of polymer composites. Journal of Materials Science, 2021, 56, 4225-4238.	1.7	12
637	Dielectric and magnetic response of iron oxide nanoparticles embedded in unsaturated polyester resin. Physica B: Condensed Matter, 2021, 602, 412554.	1.3	7
638	Effect of Amine Hardener Molecular Structure on the Thermal Conductivity of Epoxy Resins. ACS Applied Polymer Materials, 2021, 3, 259-267.	2.0	30
639	Toward enhancing dielectric properties and thermal conductivity of f-Cu/PVDF with PS as an interlayer. Polymer-Plastics Technology and Materials, 2021, 60, 680-693.	0.6	5
640	The effect of interfacial resistance and crystallinity on heat transfer mechanism in carbon nanotube reinforced polyethylene. Materials and Design, 2021, 199, 109420.	3.3	15
641	Thermal characterization of polyethersulfone composites filled with self lubricants. Materials Today: Proceedings, 2021, 43, 1258-1267.	0.9	1
642	Quasi-Isotropic Thermal Conduction in Percolation Networks: Using the Pore-Filling Effect to Enhance Thermal Conductivity in Polymer Nanocomposites. ACS Applied Polymer Materials, 2021, 3, 1293-1305.	2.0	16
643	Liquidâ€crystalline behavior and thermal conductivity of vinyl polymers containing benzoxazole side groups. Polymer International, 2021, 70, 812-822.	1.6	4
644	Highly thermo-conductive but electrically insulating filament via a volume-confinement self-assembled strategy for thermoelectric wearables. Chemical Engineering Journal, 2021, 421, 127764.	6.6	14
645	Strategies for enhancing thermal conductivity of polymer-based thermal interface materials: a review. Journal of Materials Science, 2021, 56, 1064-1086.	1.7	123
646	The surface modification of boron nitride particles. Journal of Thermal Analysis and Calorimetry, 2021, 143, 151-163.	2.0	10
647	Effect of graphene filler structure on electrical, thermal, mechanical, and fire retardant properties of epoxy-graphene nanocomposites - a review. Critical Reviews in Solid State and Materials Sciences, 2021, 46, 152-187.	6.8	44
648	Preparation of thermal conductive anticorrosive composite coatings via synergistic effect of carbon nanofillers and heat transfer oil. Colloid and Polymer Science, 2021, 299, 899-908.	1.0	4
649	Highly thermally conductive liquid metal-based composites with superior thermostability for thermal management. Journal of Materials Chemistry C, 2021, 9, 2904-2911.	2.7	110

#	Article	IF	Citations
650	Carbon nanothreads enable remarkable enhancement in the thermal conductivity of polyethylene. Nanoscale, 2021, 13, 6934-6943.	2.8	10
651	Preparation of reformed MgO filler with high humidity resistance by a hydrothermal coating technique.. Journal of Asian Ceramic Societies, 2021, 9, 262-269.	1.0	0
652	Preparation of flexible and elastic thermal conductive nanocomposites via ultrasonic-assisted forced infiltration. Composites Science and Technology, 2021, 202, 108582.	3.8	25
653	Advancement in Carbon Nanotubes: Processing Techniques, Purification and Industrial Applications. , 2021, , 309-337.		0
654	Development of thermally conductive and highâ€specific strength polypropylene composites for thermal management applications in automotive. Polymer Composites, 2021, 42, 1945-1960.	2.3	13
655	Study of Thermal Insulation Performance of Layered Jute Nonwoven: A Sustainable Material. Journal of Natural Fibers, 2022, 19, 4249-4262.	1.7	12
656	Recent Advances in the Rational Design of Thermal Conductive Polymer Composites. Industrial & Engineering Chemistry Research, 2021, 60, 1137-1154.	1.8	63
657	Generation of Self-Assembled 3D Network in TPU by Insertion of Al2O3/h-BN Hybrid for Thermal Conductivity Enhancement. Materials, 2021, 14, 238.	1.3	12
658	Chapter 2. Surface Engineering of Boron Nitride Nanoplatelets for Thermal Conductivity Enhancement of Polymers. Inorganic Materials Series, 2021, , 52-98.	0.5	1
659	High Thermal Conductivity in Anisotropic Aligned Polymeric Materials. ACS Applied Polymer Materials, 2021, 3, 578-587.	2.0	26
660	High thermal conductivity and electrical insulation of liquid alloy/ceramic/epoxy composites through the construction of mutually independent structures. Composites Science and Technology, 2021, 202, 108596.	3.8	22
662	Self-Healing Polymer Nanocomposite Materials by Joule Effect. Polymers, 2021, 13, 649.	2.0	38
663	Improving thermal conductivity of poly(vinyl alcohol) composites by using functionalized nanodiamond. Composites Communications, 2021, 23, 100596.	3.3	29
664	Highly Thermal Conductive and Electrical Insulating Epoxy Composites with a Three-Dimensional Filler Network by Sintering Silver Nanowires on Aluminum Nitride Surface. Polymers, 2021, 13, 694.	2.0	14
665	Laser Transmission Welding of Semi-Crystalline Polymers and Their Composites: A Critical Review. Polymers, 2021, 13, 675.	2.0	24
666	Graphite Nanocomposite Substrates for Improved Performance of Flexible, High-Power AlGaN/GaN Electronic Devices. ACS Applied Electronic Materials, 2021, 3, 1228-1235.	2.0	4
667	Flexible thermally conductive and electrically insulating silicone rubber composite films with BNNS@Al2O3 fillers. Advanced Composites and Hybrid Materials, 2021, 4, 36-50.	9.9	152
668	3D Printing of PDMS-Like Polymer Nanocomposites with Enhanced Thermal Conductivity: Boron Nitride Based Photocuring System. Nanomaterials, 2021, 11, 373.	1.9	34

#	Article	IF	Citations
669	Hybrid Mold: Comparative Study of Rapid and Hard Tooling for Injection Molding Application Using Metal Epoxy Composite (MEC). Materials, 2021, 14, 665.	1.3	8
670	Interface thermal resistance and thermal conductivity of polymer composites at different types, shapes, and sizes of fillers: A review. Polymer Composites, 2021, 42, 2629-2652.	2.3	53
671	Enhanced Infrared Heating of Thermoplastic Composite Sheets for Thermoforming Processes. International Polymer Processing, 2021, 36, 35-43.	0.3	7
672	Fabrication, Functionalization, and Application of Carbon Nanotube-Reinforced Polymer Composite: An Overview. Polymers, 2021, 13, 1047.	2.0	195
673	Fused filament fabrication of novel phase-change material functional composites. Additive Manufacturing, 2021, 39, 101839.	1.7	16
674	A dual-role theory of the aspect ratio of the nanofillers for the thermal conductivity of graphene-polymer nanocomposites. International Journal of Engineering Science, 2021, 160, 103453.	2.7	16
675	Ultrahigh-Aspect-Ratio Boron Nitride Nanosheets Leading to Superhigh In-Plane Thermal Conductivity of Foldable Heat Spreader. ACS Nano, 2021, 15, 6489-6498.	7.3	191
676	Coarseâ€grained Î²â€Si₃N₄ powders prepared by combustion synthesis. Journal of the American Ceramic Society, 2021, 104, 2919-2923.	1.9	8
677	Study of Mechanical Properties and Thermal Conductivity of Polymeric Blend [Epoxy and polysulfide rubber (EP + PSR)] Reinforced by Nano Ceramic Powder ZrO₂. Journal of Physics: Conference Series, 2021, 1829, 012013.	0.3	2
678	Enhanced thermal conductivity of carbon nitride-doped graphene/polyimide composite film via a â€œdeciduous-likeâ€•strategy. Composites Science and Technology, 2021, 205, 108693.	3.8	50
679	Wood Modification as a Tool to Understand Moisture in Wood. Forests, 2021, 12, 372.	0.9	48
680	The reduction of the thermal quenching effect in laser-excited phosphor converters using highly thermally conductive hBN particles. Scientific Reports, 2021, 11, 6755.	1.6	7
681	Highly thermal conductive epoxy nanocomposites filled with 3D BN/C spatial network prepared by salt template assisted method. Composites Part B: Engineering, 2021, 209, 108609.	5.9	85
682	Remarkable Thermal Conductivity of Epoxy Composites Filled with Boron Nitride and Cured under Pressure. Polymers, 2021, 13, 955.	2.0	10
683	Synthesis of dispensable PDMS/Al2O3/GO thermal gap filler and performance comparison with commercial thermal gap fillers for electronics packaging applications. Materials Technology, 0, , 1-10.	1.5	0
684	Enhancing thermal conductivity of PMMA/PS blend via forming affluent and continuous conductive pathways of graphene layers. Composites Science and Technology, 2021, 206, 108668.	3.8	13
685	Facile fabrication of three-dimensional thermal conductive composites with synergistic effect of multidimensional fillers. Journal of Materials Science, 2021, 56, 12671-12685.	1.7	7
686	A High-throughput Plasma-based Approach for Improving the Thermal Conductivity of Epoxy Resin/Boron Nitride. , 2021, , .		0

#	Article	IF	Citations
687	Heat transfer and its effect on growth behaviors of crystal layers during static layer melt crystallization. Chemical Engineering Science, 2021, 233, 116390.	1.9	18
688	Synthesis, mechanical, thermal, and electrical characterization of graphiteâ€“epoxy composites. Journal of the Chinese Chemical Society, 2021, 68, 1456-1465.	0.8	6
689	Rational design of high-performance thermal interface materials based on gold-nanocap-modified vertically aligned graphene architecture. Composites Communications, 2021, 24, 100621.	3.3	16
690	Dielectric Properties of Shrinkage-Free Poly(2-Oxazoline) Networks from Renewable Resources. Polymers, 2021, 13, 1263.	2.0	1
691	Dielectric BN nanosheet / PVDF composites with high thermal conductivity. Journal of Physics: Conference Series, 2021, 1857, 012011.	0.3	0
692	Tunable Hydrophobicity via Dimensionally Confined Polymerization of Organometallic Adducts. Angewandte Chemie, 2021, 133, 14048-14055.	1.6	2
693	Tunable Hydrophobicity via Dimensionally Confined Polymerization of Organometallic Adducts. Angewandte Chemie - International Edition, 2021, 60, 13929-13936.	7.2	5
694	Polymer composites for thermal applications â€“ A review. Materials Today: Proceedings, 2021, 47, 2839-2845.	0.9	9
695	Understanding the Thermal and Resistive Properties from the Perspective of Molecular Interaction of Epoxy/POSS Composite. , 2021, , .		0
696	Thermal Transport in Polymers: A Review. Journal of Heat Transfer, 2021, 143, .	1.2	32
697	Effect of Aminosilane Coupling Agent-Modified Nano-SiO2 Particles on Thermodynamic Properties of Epoxy Resin Composites. Processes, 2021, 9, 771.	1.3	4
698	Recent progress in thermally conductive polymer/boron nitride composites by constructing three-dimensional networks. Composites Communications, 2021, 24, 100650.	3.3	55
699	Temperature-depended ion concentration polarization in electrokinetic energy conversion. International Journal of Heat and Mass Transfer, 2021, 168, 120842.	2.5	21
700	A systematic review of pure metals reinforced plastic composites. Iranian Polymer Journal (English) Tj ETQq1 1 0.784314 rgBT /Overlo	1.3	12
701	Selective distribution of SrTiO3 in co-continuous composites: An effective method to improve the dielectric and mechanical properties. Composites Part A: Applied Science and Manufacturing, 2021, 143, 106312.	3.8	18
702	A mini review on thermally conductive polymers and polymer-based composites. Composites Communications, 2021, 24, 100617.	3.3	67
703	Mechanical and Thermal Properties of Graphene based Hybrid Polymer Nanocomposites - A Review. IOP Conference Series: Materials Science and Engineering, 2021, 1116, 012038.	0.3	0
704	Highly Thermally Conductive 3D Printed Graphene Filled Polymer Composites for Scalable Thermal Management Applications. ACS Nano, 2021, 15, 6917-6928.	7.3	143

#	Article	IF	Citations
705	Enhanced thermal conductivity and fire safety of flexible hybrid film via synergistic effects between boron nitride and functionalized graphene. Journal of Thermal Analysis and Calorimetry, 2022, 147, 4047-4058.	2.0	7
706	Enhanced thermal conductivity of polyvinyl alcohol insulation composites with m-BN@CNW hybrid materials. Composites Science and Technology, 2021, 208, 108766.	3.8	27
707	Improving thermal conductivity of polybutylene terephthalate composites with hybrid synthetic graphite and carbon fiber. Journal of Thermoplastic Composite Materials, 2023, 36, 595-614.	2.6	4
708	Molecular Dynamics Simulation for the Effect of Fluorinated Graphene Oxide Layer Spacing on the Thermal and Mechanical Properties of Fluorinated Epoxy Resin. Nanomaterials, 2021, 11, 1344.	1.9	7
709	Highly thermally conductive epoxy composites with anti-friction performance achieved by carbon nanofibers assisted graphene nanoplatelets assembly. European Polymer Journal, 2021, 151, 110443.	2.6	21
710	Designing high thermal conductivity of polydimethylsiloxane filled with hybrid h-BN/MoS2 via molecular dynamics simulation. Polymer, 2021, 224, 123697.	1.8	10
711	Development of a self-sustained model to predict the performance of direct contact membrane distillation. Separation and Purification Technology, 2021, 263, 118407.	3.9	17
712	Contact Thermal Resistance between Silver Nanowires with Poly(vinylpyrrolidone) Interlayers. Nano Letters, 2021, 21, 4388-4393.	4.5	5
713	Hybridization and torsion defects influenced electron transport in trans-polyacetylene. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 129, 114628.	1.3	3
714	Thermal Imaging of Block Copolymers with Sub-10 nm Resolution. ACS Nano, 2021, 15, 9005-9016.	7.3	4
715	Sandwich-structured PVA/rGO films from self-construction with high thermal conductivity and electrical insulation. Composites Science and Technology, 2021, 207, 108707.	3.8	33
716	Surface Modification Using Polydopamine-Coated Liquid Metal Nanocapsules for Improving Performance of Graphene Paper-Based Thermal Interface Materials. Nanomaterials, 2021, 11, 1236.	1.9	17
717	Application and Suitability of Polymeric Materials as Insulators in Electrical Equipment. Energies, 2021, 14, 2758.	1.6	23
718	Fully Organic Bulk Polymer with Metallic Thermal Conductivity and Tunable Thermal Pathways. Advanced Science, 2021, 8, e2004821.	5.6	51
719	Ultrahigh concentration and stable dispersion of graphite nanosheet paste as composite nanofillers for thermal management and electromagnetic shielding. Nano Select, 2021, 2, 2159-2167.	1.9	4
720	A Multiscale Investigation on the Thermal Transport in Polydimethylsiloxane Nanocomposites: Graphene vs. Borophene. Nanomaterials, 2021, 11, 1252.	1.9	6
721	Atomistic molecular dynamic simulations of the thermal transport across h-BN/cellulose nanocrystal interface. International Journal of Heat and Mass Transfer, 2021, 171, 121043.	2.5	6
722	Enhanced Thermal Conductivity in Oriented Polyvinyl Alcohol/Graphene Oxide Composites. ACS Applied Materials & Interfaces, 2021, 13, 28864-28869.	4.0	41

#	Article	IF	Citations
723	Tailoring the Thermal Conductivity of Rubber Nanocomposites by Inorganic Systems: Opportunities and Challenges for Their Application in Tires Formulation. Molecules, 2021, 26, 3555.	1.7	18
724	Enhanced Energy Storage Performance of Polymer/Ceramic/Metal Composites by Increase of Thermal Conductivity and Coulomb-Blockade Effect. ACS Applied Materials & Interfaces, 2021, 13, 27343-27352.	4.0	26
725	The influence of carbon nanotube buckypaper/poly (ether imide) mats on the thermal properties of poly (ether imide) and poly (aryl ether ketone)/carbon fiber laminates. Diamond and Related Materials, 2021, 116, 108421.	1.8	9
726	3D Printingâ€Enabled Nanoparticle Alignment: A Review of Mechanisms and Applications. Small, 2021, 17, e2100817.	5.2	61
727	Spherical hybrid filler <scp>BN</scp>@<scp>Al₂O₃</scp> via chemical adhesive for enhancing thermal conductivity and processability of silicon rubber. Journal of Applied Polymer Science, 2021, 138, 51211.	1.3	9
728	In situ sintered silver decorated <scp>3D</scp> structure of cellulose scaffold for highly thermoconductive electromagnetic interference shielding epoxy nanocomposites. Journal of Applied Polymer Science, 2021, 138, 51193.	1.3	5
729	Enhanced thermal conductivity and mechanical properties of natural rubber-based composites co-incorporated with surface treated alumina and reduced graphene oxide. Diamond and Related Materials, 2021, 116, 108438.	1.8	12
730	Soft and Selfâ€Adhesive Thermal Interface Materials Based on Vertically Aligned, Covalently Bonded Graphene Nanowalls for Efficient Microelectronic Cooling. Advanced Functional Materials, 2021, 31, 2104062.	7.8	95
731	Ultrafast Fabrication of Grapheneâ€Reinforced Nanocomposites via Synergy of Steam Explosion and Alternating Convergentâ€Divergent Flow. Small, 2021, 17, e2100017.	5.2	14
732	Constructing of strawberry-like core-shell structured Al2O3 nanoparticles for improving thermal conductivity of nitrile butadiene rubber composites. Composites Science and Technology, 2021, 209, 108786.	3.8	28
733	Multi-directionally thermal conductive epoxy/boron nitride composites based on circinate vane type network. Composites Communications, 2021, 25, 100744.	3.3	11
734	Experimental, Theoretical and Simulation Studies on the Thermal Behavior of PLA-Based Nanocomposites Reinforced with Different Carbonaceous Fillers. Nanomaterials, 2021, 11, 1511.	1.9	11
735	Highâ€thermal conductivities of epoxy composites via pâ€phenylenediamine interfacial modification and process intensification. Journal of Applied Polymer Science, 2021, 138, 51218.	1.3	3
736	Significantly improved thermal conductivity of silicone rubber and aligned boron nitride composites by a novel roll-cutting processing method. Composites Science and Technology, 2021, 209, 108794.	3.8	35
737	Vertical alignment of carbon fibers under magnetic field driving to enhance the thermal conductivity of silicone composites. Polymers for Advanced Technologies, 2021, 32, 4318-4325.	1.6	14
738	Assessing the impact of novel polymers and thermal management in a power electronics module using machine learning approaches. , 2021, , .		0
739	Influence of Incorporation of Gallium Oxide Nanoparticles on the Structural and Optical Properties of Polyvinyl Alcohol Polymer. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 4141-4149.	1.9	21
740	Simultaneous improvement of interface compatibility and thermal conductivity for thermally conductive ABS/Al2O3 composites by using electron beam radiation processing. Journal of Polymer Research, 2021, 28, 1.	1.2	4

#	Article	IF	Citations
741	Generalized modeling of the effective thermal conductivity of particulate composites. Materials Today Communications, 2021, 27, 102283.	0.9	2
742	Investigation of the Thermal Conductivity of Silicon-Base Composites: The Effect of Filler Materials and Characteristic on Thermo-Mechanical Response of Silicon Composite. Applied Sciences (Switzerland), 2021, 11, 5663.	1.3	9
743	Pristine, Irradiated and Nanocomposite Polystyrene: Recent Experimental and Theoretical Developments. Transactions on Electrical and Electronic Materials, 2021, 22, 394-418.	1.0	8
744	A Review of Multiple Scale Fibrous and Composite Systems for Heating Applications. Molecules, 2021, 26, 3686.	1.7	13
745	A co-training style semi-supervised artificial neural network modeling and its application in thermal conductivity prediction of polymeric composites filled with BN sheets. Energy and AI, 2021, 4, 100052.	5.8	17
746	Highly Thermal Conductive Poly(vinyl alcohol) Composites with Oriented Hybrid Networks: Silver Nanowire Bridged Boron Nitride Nanoplatelets. ACS Applied Materials & Interfaces, 2021, 13, 32286-32294.	4.0	67
747	Design and Performance Test of Steamer Cabinet for Fish Jelly Products. IOP Conference Series: Earth and Environmental Science, 2021, 828, 012029.	0.2	0
748	Simultaneously improving thermal conductivity and dielectric properties of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5 2021, 138, 51354.	1.3	1
749	Highly anisotropic thermal conductivity of mesogenic epoxy resin film through orientation control. Journal of Applied Polymer Science, 2021, 138, 51396.	1.3	9
750	Multifunctional and corrosion resistant poly(phenylene sulfide)/Ag composites for electromagnetic interference shielding. Chemical Engineering Journal, 2021, 415, 129052.	6.6	68
751	Design and synthesis of barium ferrite-based nanocomposite films with highly regulated 3-D structures. Applied Surface Science, 2021, 555, 149515.	3.1	4
752	Preparation of p-Phenylenediamine Modified Graphene Foam/Polyaniline@Epoxy Composite with Superior Thermal and EMI Shielding Performance. Polymers, 2021, 13, 2324.	2.0	7
753	Thermomechanical properties of silicaâ€“epoxy nanocomposite modified by hyperbranched polyester: A molecular dynamics simulation. High Performance Polymers, 2021, 33, 1153-1164.	0.8	2
754	Thermal management of an interventional medical device with double layer encapsulation. Experimental Heat Transfer, 2022, 35, 708-725.	2.3	3
755	Preparation of silver-plated carbon nanotubes/carbon fiber hybrid fibers by combining freeze-drying deposition with a sizing process to enhance the mechanical properties of carbon fiber composites. Composites Part A: Applied Science and Manufacturing, 2021, 146, 106421.	3.8	37
756	Al₂O₃ Dispersion-Induced Micropapillae in an Epoxy Composite Coating and Implications in Thermal Conductivity. ACS Omega, 2021, 6, 17870-17879.	1.6	2
757	Ultrahigh Thermal Conductivity of Epoxy Composites with Hybrid Carbon Fiber and Graphene Filler. Fibers and Polymers, 2022, 23, 463-470.	1.1	6
758	Thermally conductive glass fiber reinforced epoxy composites with intrinsic self-healing capability. Advanced Composites and Hybrid Materials, 2021, 4, 1048-1058.	9.9	60

#	Article	IF	Citations
759	Influence of Ambient Temperature on Radiative and Convective Heat Dissipation Ratio in Polymer Heat Sinks. Polymers, 2021, 13, 2286.	2.0	7
760	Bioinspired modified graphite film with superb mechanical and thermoconductive properties. Carbon, 2021, 181, 40-47.	5.4	21
761	Surface modified boron nitride towards enhanced thermal and mechanical performance of thermoplastic polyurethane composite. Composites Part B: Engineering, 2021, 218, 108871.	5.9	53
762	Improving the Intrinsic Thermal Conductivity of Epoxy Resin by Synergistic Effect between Rigid Groups and Hydrogen Bonds. ChemistrySelect, 2021, 6, 8219-8226.	0.7	3
763	Enhanced thermal conductivity of polyethylene nanocomposites with graphene, granulated graphene, graphene nanoplatelet, and their hybrids. International Journal of Energy Research, 2022, 46, 10218-10227.	2.2	4
764	Large scale synthesis of hexagonal boron nitride nanosheets and their use in thermally conductive polyethylene nanocomposites. International Journal of Energy Research, 2022, 46, 10143-10156.	2.2	7
765	Enhanced thermal conductivity and wear resistance of polytetrafluoroethylene via incorporating hexagonal boron nitride and alumina particles. Journal of Applied Polymer Science, 2022, 139, 51497.	1.3	16
766	Enhanced thermal conductivity and microwave dielectric properties by mesostructural design of multiphase nanocomposite. Nano Materials Science, 2022, 4, 133-138.	3.9	4
767	Recent Progress on Fabrication and Performance of Polymer Composites with Highly Thermal Conductivity. Macromolecular Materials and Engineering, 2021, 306, 2100434.	1.7	33
768	Effect on hydrophobicity and antimicrobial behavior of epoxy resin due to silane functionalized TiO₂ as nanofillers. International Journal of Polymer Analysis and Characterization, 2021, 26, 668-681.	0.9	4
769	Improved Thermal Conductivity of Polymer Composites by Noncovalent Modification of Boron Nitride via Tannic Acid Chemistry. Industrial & Engineering Chemistry Research, 2021, 60, 12570-12578.	1.8	30
770	Heat resistant and thermally conductive polylactide composites achieved by stereocomplex crystallite tailored carbon nanofiber network. Chemical Engineering Journal, 2021, 418, 129287.	6.6	15
771	Electroless deposition surface engineering of boron nitride sheets for enhanced thermal conductivity and decreased interfacial thermal resistance of epoxy composites. International Journal of Heat and Mass Transfer, 2021, 174, 121306.	2.5	11
772	Temperature effect on thermal, mechanical, and electrical properties of Ag nanoparticle filled thermoplastic polyurethane composites. Polymer Composites, 2021, 42, 5952-5961.	2.3	6
773	Bidirectional Modulation of Contact Thermal Resistance between Boron Nitride Nanotubes from a Polymer Interlayer. Nano Letters, 2021, 21, 7317-7324.	4.5	14
774	Highly thermally conductive and eco-friendly OH-h-BN/chitosan nanocomposites by constructing a honeycomb thermal network. Carbohydrate Polymers, 2021, 266, 118127.	5.1	25
775	High through-plane thermal conductivity and light-weight of UHMWPE fibers/PDMS composites by a large-scale preparation method. Polymer, 2021, 229, 123975.	1.8	17
776	The role of nitrogen-carbon dots (NC) nano-particles in enhancing thermoelectric power functions of PEDOT:PSS/Te nano-composite films. Chemical Engineering Journal, 2021, 417, 129212.	6.6	17

#	Article	IF	Citations
777	Review of Nanocomposite Dielectric Materials With High Thermal Conductivity. Proceedings of the IEEE, 2021, 109, 1364-1397.	16.4	32
778	Thermal Conducting Thermosets Driven by Molecular Structurally Enhanced Mesogen Interactions. ACS Applied Polymer Materials, 2021, 3, 4147-4155.	2.0	12
779	Investigation of Crystallization Fouling on Novel Polymer Composite Heat Exchanger Tubes. Heat Transfer Engineering, 0, , 1-11.	1.2	4
780	Conducting polymer-based flexible thermoelectric materials and devices: From mechanisms to applications. Progress in Materials Science, 2021, 121, 100840.	16.0	160
781	A mini review on factors affecting network in thermally enhanced polymer composites: filler content, shape, size, and tailoring methods. Advanced Composites and Hybrid Materials, 2022, 5, 21-38.	9.9	48
782	Design, Development and Evaluation of Thermal Properties of Polysulphoneâ€“CNT/GNP Nanocomposites. Nanomaterials, 2021, 11, 2080.	1.9	15
783	Enhanced thermal conductivity of bio-based epoxy-graphite nanocomposites with degradability by facile in-situ construction of microcapsules. Composites Part B: Engineering, 2021, 218, 108936.	5.9	27
784	Recent Advances in Design and Preparation of Polymer-Based Thermal Management Material. Polymers, 2021, 13, 2797.	2.0	22
785	Wet-resilient graphene aerogel for thermal conductivity enhancement in polymer nanocomposites. Journal of Materials Science and Technology, 2021, 83, 219-227.	5.6	38
786	Wood-Derived Composites with High Performance for Thermal Management Applications. Biomacromolecules, 2021, 22, 4228-4236.	2.6	6
787	Development and Challenges of Thermal Interface Materials: A Review. Macromolecular Materials and Engineering, 2021, 306, 2100428.	1.7	18
788	Robust Biomimetic Nacreous Aramid Nanofiber Composite Films with Ultrahigh Thermal Conductivity by Introducing Graphene Oxide and Edge-Hydroxylated Boron Nitride Nanosheet. Nanomaterials, 2021, 11, 2544.	1.9	8
789	Synergistic effect of carbon nanotubes and wood-derived carbon scaffold on natural rubber-based high-performance thermally conductive composites. Composites Science and Technology, 2021, 213, 108963.	3.8	21
790	Engineering polymers with metal-like thermal conductivityâ€”Present status and future perspectives. Polymer, 2021, 233, 124168.	1.8	19
791	Manufacturing and Experimental Evaluation of Microwave Cured Carbon/Epoxy Composites. Applied Composite Materials, 2021, 28, 2087-2103.	1.3	4
792	Controlled Vertically Aligned Structures in Polymer Composites: Natural Inspiration, Structural Processing, and Functional Application. Advanced Materials, 2021, 33, e2103495.	11.1	62
793	The effect of cell-size, cross-linking ratio, and force fields on the determination of properties of epoxy crosslinked by heuristic protocol. Modelling and Simulation in Materials Science and Engineering, 0, , .	0.8	1
794	Highly thermo-conductive yet electrically insulating material with perpendicularly engineered assembly of boron nitride nanosheets. Composites Science and Technology, 2021, 214, 108995.	3.8	29

#	Article	IF	Citations
795	Optimization of Effective Thermal Conductivity of Thermal Interface Materials Based on the Genetic Algorithm-Driven Random Thermal Network Model. ACS Applied Materials & Interfaces, 2021, 13, 45050-45058.	4.0	17
796	3D percolation modeling for predicting the thermal conductivity of graphene-polymer composites. Computational Materials Science, 2021, 197, 110650.	1.4	10
797	Synergistic Enhanced Thermal Conductivity and Dielectric Constant of Epoxy Composites with Mesoporous Silica Coated Carbon Nanotube and Boron Nitride Nanosheet. Materials, 2021, 14, 5251.	1.3	8
798	Lightweight thermal interface materials based on hierarchically structured graphene paper with superior through-plane thermal conductivity. Chemical Engineering Journal, 2021, 419, 129609.	6.6	54
799	Synergistic effect of carbon fiber and alumina in improving the thermal conductivity of polydimethylsiloxane composite. Thermochimica Acta, 2021, 703, 178980.	1.2	14
800	Molecular Junctions Enhancing Thermal Transport within Graphene Polymer Nanocomposite: A Molecular Dynamics Study. Nanomaterials, 2021, 11, 2480.	1.9	2
801	Mitigation of fouling during milk processing in polytetrafluoroethyleneâ€titanium dioxide coated plate heat exchanger. Journal of Food Process Engineering, 2022, 45, e13836.	1.5	4
802	Three-dimensional porous ultrathin carbon networks reinforced PBAs-derived electrocatalysts for efficient oxygen evolution. Chemical Engineering Journal, 2021, 419, 129575.	6.6	27
803	Highly Enhancing Electrical, Thermal, and Mechanical Properties of Polypropylene/Graphite Intercalation Compound Composites by In Situ Expansion during Melt Mixing. Polymers, 2021, 13, 3095.	2.0	7
804	Enhanced thermal conduction of functionalized graphene nanoflake/polydimethylsiloxane composites via thermoluminescence strategy. Composites Science and Technology, 2021, 213, 108940.	3.8	21
805	Nano SiC enhancement in the BN micro structure for high thermal conductivity epoxy composite. Journal of Polymer Research, 2021, 28, 1.	1.2	5
806	3D structured graphene fluoride-based epoxy composites with high thermal conductivity and electrical insulation. Composites Part A: Applied Science and Manufacturing, 2021, 149, 106585.	3.8	34
807	Disordered graphite platelets in polypropylene (PP) matrix by spherical alumina particles: Increased thermal conductivity of the PP/flake graphite composites. Composites Communications, 2021, 27, 100856.	3.3	14
808	Silver nanowires decorated recycled cigarette filters based epoxy composites with high through-plane thermal conductivity and efficient electromagnetic interference shielding. Composites Part A: Applied Science and Manufacturing, 2021, 149, 106485.	3.8	17
809	Covalently bonded silica interfacial layer for simultaneously improving thermal and dielectric performance of copper/epoxy composite. Surfaces and Interfaces, 2021, 26, 101404.	1.5	5
810	Multifunctional cellulose-based fireproof thermal conductive nanocomposite films assembled by in-situ grown SiO2 nanoparticle onto MXene. Chemical Engineering Journal, 2021, 421, 129733.	6.6	41
811	A stochastic multiscale method for the prediction of the thermal conductivity of Polymer nanocomposites through hybrid machine learning algorithms. Composite Structures, 2021, 273, 114269.	3.1	50
812	Thermally conductive h-BN reinforced PEI composites: The role of processing conditions on dispersion states. Materials Today Communications, 2021, 29, 102854.	0.9	10

#	Article	IF	Citations
813	Improvement of dielectric properties and thermal conductivity of TPU with alumina-encapsulated rGO. Polymer Testing, 2021, 102, 107322.	2.3	15
814	Multifunctional epoxy nanocomposites reinforced by two-dimensional materials: A review. Carbon, 2021, 185, 57-81.	5.4	88
815	A review of carbon-based thermal interface materials: Mechanism, thermal measurements and thermal properties. Materials and Design, 2021, 209, 109936.	3.3	75
816	Date palm wood waste-based composites for green thermal insulation boards. Journal of Building Engineering, 2021, 43, 103224.	1.6	15
817	Three-dimensional skeleton assembled by carbon nanotubes/boron nitride as filler in epoxy for thermal management materials with high thermal conductivity and electrical insulation. Composites Part B: Engineering, 2021, 224, 109168.	5.9	66
818	High thermal conductivity of boron nitride filled epoxy composites prepared by tin solder nanoparticle decoration. Composites Part B: Engineering, 2021, 225, 109264.	5.9	28
819	Fabrication of EVA connected 3D BN network for enhancing the thermal conductivity of epoxy composites. Composites Part B: Engineering, 2021, 224, 109203.	5.9	51
820	SiC whiskers nucleated on rGO and its potential role in thermal conductivity and electronic insulation. Chemical Engineering Journal, 2021, 423, 130181.	6.6	24
821	High-temperature dielectric paper with high thermal conductivity and mechanical strength by engineering the aramid nanofibers and boron nitride nanotubes. Materials and Design, 2021, 210, 110124.	3.3	34
822	Improved through-plane thermal conductivity of 3D structured composites via BN alignment and AlN surface modification. Composites Communications, 2021, 28, 100935.	3.3	22
823	Microscopic ordered structure compactness and intrinsic thermal conductivity improvement of dispersed liquid crystal films of flexible epoxy-thiol polymers. Materials Today Communications, 2021, 29, 102792.	0.9	11
824	Dielectrophoretic alignment of Al2O3/PDMS composites: Enhancement of thermal and dielectric properties through structural sedimentation analysis. Materials and Design, 2021, 211, 110134.	3.3	9
825	Effect of Taconite on Healing and Thermal Characteristics of Asphalt Binder. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	3
826	Supramolecular wrapped sandwich like SW-Si3N4 hybrid sheets as advanced filler toward reducing fire risks and enhancing thermal conductivity of thermoplastic polyurethanes. Journal of Colloid and Interface Science, 2021, 603, 844-855.	5.0	28
827	A Route to Sustainable Aviation: A Roadmap for the Realization of Aircraft Components With Electrical and Structural Multifunctionality. IEEE Transactions on Transportation Electrification, 2021, 7, 3032-3049.	5.3	16
828	Fabrication of high thermal and electrical conductivity composites via electroplating Cu network on 3D PEEK/CF felt skeletons. Composites Communications, 2021, 28, 100909.	3.3	9
829	Self-lubricating epoxy-based composite abradable seal coating eliminating adhesive transfer via hierarchical design. Journal of Materials Science and Technology, 2022, 104, 145-154.	5.6	12
830	Prediction of effective thermal conductivity of multiphase composites with periodic microstructures using an expanded micromechanical model. International Journal of Thermal Sciences, 2022, 171, 107226.	2.6	5

#	Article	IF	Citations
831	A comprehensive study on the effective thermal conductivity of random hybrid polymer composites. International Journal of Heat and Mass Transfer, 2022, 182, 121936.	2.5	14
832	Assessment of Morphological, Physical, Thermal, and Thermal Conductivity Properties of Polypropylene/Lignosulfonate Blends. Materials, 2021, 14, 543.	1.3	6
833	Influence of short carbon fiber content on thermal properties of polyethersulfone composites. Materials Today: Proceedings, 2021, 43, 1268-1275.	0.9	7
834	Recent progress in the development of thermal interface materials: a review. Physical Chemistry Chemical Physics, 2021, 23, 753-776.	1.3	44
835	Prominence of conjugated polymers. , 2021, , 1-25.		0
836	Flexible, multifunctional, and thermally conductive nylon/graphene nanoplatelet composite papers with excellent EMI shielding performance, improved hydrophobicity and flame resistance. Journal of Materials Chemistry A, 2021, 9, 5033-5044.	5.2	57
837	The influence of graphene oxide filler on the electrical and thermal properties of unidirectional carbon fiber/epoxy laminates: Effect of outâ€ofâ€plane alignment of the graphene oxide nanoparticles. Polymer Composites, 2020, 41, 3510-3520.	2.3	29
838	Enhancing the thermal conductivities of aluminum nitrideâ€polydimethylsiloxane composites via tailoring of thermal losses in filler networks. Polymer Composites, 2021, 42, 1338-1346.	2.3	6
839	Regularities of Obtaining Metal-Filled Polymer Composites. Springer Proceedings in Physics, 2020, , 59-66.	0.1	7
840	Use of BN-coated copper nanowires in nanocomposites with enhanced thermal conductivity and electrical insulation. Advanced Composites and Hybrid Materials, 2019, 2, 46-50.	9.9	38
841	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
842	Electric-field-induced out-of-plane alignment of clay in poly(dimethylsiloxane) with enhanced anisotropic thermal conductivity and mechanical properties. Composites Science and Technology, 2018, 165, 39-47.	3.8	21
843	Thermal insulation using biodegradable poly(lactic acid)/date pit composites. Construction and Building Materials, 2020, 261, 120533.	3.2	30
844	Enhanced thermal conductivity for traditional epoxy packaging composites by constructing hybrid conductive network. Materials Research Express, 2020, 7, 065308.	0.8	12
845	Percolation threshold of multiwall carbon nanotube-PVDF composite for electromagnetic wave propagation. Nano Express, 2020, 1, 010060.	1.2	12
846	A Novel Organic Substrate with Enhanced Thermal Conductivity. , 2017, , .		4
847	Synthesis and characterization of high-temperature resistant and thermally conductive magnetic PBI/Fe3O4 nanofibers. High Performance Polymers, 2020, 32, 1031-1042.	0.8	2
848	Studying the effect of concentration factors on the process of chemical metallization of powdered polyvinylchloride. Eastern-European Journal of Enterprise Technologies, 2018, 3, 40-47.	0.3	12

#	Article	IF	Citations
849	Advances in graphene-based polymer composites with high thermal conductivity. Veruscript Functional Nanomaterials, 2018, 2, 1-17.	0.2	14
850	Application of Graphene Silicone Grease in heat dissipation for the Intel Core i5 Processor. International Journal on Informatics Visualization, 2019, 3, 222-226.	0.5	3
851	Modulating the thermal conductivity of crystalline nylon by tuning hydrogen bonds through structure poling. Journal of Materials Chemistry A, 2021, 9, 24472-24479.	5.2	18
852	Modification of the three-dimensional graphene aerogel self-assembled network using a titanate coupling agent and its thermal conductivity mechanism with epoxy composites. Nanoscale, 2021, 13, 18247-18255.	2.8	15
853	Anisotropic BN Nanosheet/polymer Composite Bulk Material: A Study on Mechanical Property. , 2021, , .		0
854	Recent Advances in Fluorinated Graphene from Synthesis to Applications: Critical Review on Functional Chemistry and Structure Engineering. Advanced Materials, 2022, 34, e2101665.	11.1	90
855	Highly thermally conductive flexible copper clad laminates based on sea-island structured boron nitride/polyimide composites. Composites Science and Technology, 2022, 230, 109087.	3.8	23
856	Thermally conductive epoxy/boron nitride composites with high glass transition temperatures for thermal interface materials. Materials and Design, 2021, 212, 110190.	3.3	36
857	Machine Learning-Based Predictions of Benefits of High Thermal Conductivity Encapsulation Materials for Power Electronics Packaging. Journal of Electronic Packaging, Transactions of the ASME, 2021, 143, .	1.2	6
858	Fabrication of thermally conductive polymer composites based on hexagonal boron nitride: recent progresses and prospects. Nano Express, 2021, 2, 042002.	1.2	8
859	Fabrication of High Thermally Conductive and Electrical Insulating Composites by Boron Nitrideâ€Nanosheetâ€Coated PEEK Fiber. Macromolecular Materials and Engineering, 2021, 306, 2100532.	1.7	0
860	Microstructure and properties of poly(butylene terephthalate)/poly(ethylene terephthalate) composites based on carbon nanotube<scp>s</scp>/graphene nanoplatelet<scp>s</scp> hybrid filler systems. Journal of Applied Polymer Science, 2022, 139, 51733.	1.3	7
861	Effect of MWCNTs/ZnO inorganic fillers on the electrical, mechanical and thermal properties of SiR-based composites. Journal of Materials Science: Materials in Electronics, 2021, 32, 27676-27687.	1.1	2
862	Spherical aggregated BN /AlN filled silicone composites with enhanced through-plane thermal conductivity assisted by vortex flow. Chemical Engineering Journal, 2022, 430, 133155.	6.6	33
863	A Spiral Graphene Framework Containing Highly Ordered Graphene Microtubes for Polymer Composites with Superior <scp>Throughâ€Plane</scp> Thermal Conductivity. Chinese Journal of Chemistry, 2022, 40, 329-336.	2.6	11
864	Tuning the Thermal Conductivity of the Amorphous PAA Polymer via Vapor-Phase Infiltration. ACS Omega, 2021, 6, 29054-29059.	1.6	1
865	Lightning Protection of Wind Turbine Bladesâ€"How Supersizing Has Created New Challenges for Nanodielectrics Research. IEEE Electrical Insulation Magazine, 2021, 37, 6-20.	1.1	2
866	Measurement of the In-Plane Thermal Conductivity of Long Fiber Composites by Inverse Analysis. Open Journal of Composite Materials, 2017, 07, 85-98.	0.4	0

#	Article	IF	Citations
867	Engineering polymers with high mechanical and thermal resistance for electric motors. Science Technology and Innovation, 2017, 1, 39-43.	0.0	1
868	Cooling effects of infrared radiative inorganic fillers in heat dissipation coatings at temperatures below 400 K. AIMS Materials Science, 2018, 5, 756-769.	0.7	1
869	Polymer Composite Materials for Microelectronics Packaging Applications. Advances in Chemical and Materials Engineering Book Series, 2018, , 177-211.	0.2	0
871	Continuous Fiber Polymer Composites for Thermal Applications. , 2018, , .		0
872	Numerical Investigations of Ellipsoid Shaped Filler on Heat Transport Behavior of Reinforced Polymer Composites. Lecture Notes in Networks and Systems, 2019, , 408-414.	0.5	0
873	InfluÃªncia de interfases sobre a condutividade tÃ©rmica efetiva de compÃ³sitos periÃ³dicos reforÃ§ados por fibras. Revista Materia, 2019, 24, .	0.1	0
875	h-BN and graphene oxide/epoxy nanocomposite â€“ A comparative study of mechanical, electrical and thermal properties. AIP Conference Proceedings, 2020, , .	0.3	1
876	Mechanical and Electrothermal Properties of Conductive Ethyleneâ€“Propyleneâ€“Diene Monomer Rubber Composite for Active Deicing and Snow Melting. Journal of Materials in Civil Engineering, 2020, 32, .	1.3	10
877	Polymerâ€Grafted Nanoparticles as Singleâ€Component, High Filler Content Composites via Simple Transformative Aging. Advanced Functional Materials, 2022, 32, 2107139.	7.8	12
878	A review on friction stir welding of thermoplastic materials: recent advances and progress. Welding in the World, Le Soudage Dans Le Monde, 2022, 66, 1-25.	1.3	8
879	Enhanced Thermal Conductivity of Polymer Composite by Adding Fishbone-like Silicon Carbide. Nanomaterials, 2021, 11, 2891.	1.9	5
880	Thermal Properties of Solids and the Size Effect. Mechanical Engineering Series, 2020, , 175-253.	0.1	0
881	THERMAL CONDUCTIVITY ENHANCEMENT OF POLYMERS VIA STRUCTURE TAILORING. Journal of Enhanced Heat Transfer, 2020, 27, 463-489.	0.5	7
882	Modeling the Thermal Conductivity of Polymer-Inorganic Nanocomposites. Springer Series in Materials Science, 2021, , 235-257.	0.4	1
883	Uniform coating of magnesium oxide crystal with reduced graphene oxide achieves moisture barrier performance. Applied Surface Science, 2022, 573, 151483.	3.1	9
884	Dynamic Mechanical and Chemorheology Analysis for the Blended Epoxy System with Polyurethane Modified Resin. Journal of Renewable Materials, 2022, 10, 1081-1095.	1.1	6
885	Recent progress of thermal conductive ploymer composites: Al2O3 fillers, properties and applications. Composites Part A: Applied Science and Manufacturing, 2022, 152, 106685.	3.8	86
886	Carbon as a Solution for Nanocellular Foam Superinsulation. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	Citations
887	Preparation of thermally conductive but electrically insulated polypropylene containing copper nanowire. Polymer, 2021, 236, 124317.	1.8	9
888	High pressure homogenization of graphene and carbon nanotube for thermal conductive polyethylene composite with a low filler content. Journal of Applied Polymer Science, 2022, 139, 51838.	1.3	10
889	Effect of Pressing Mode and Pressure on Arc Ablation Performance of PTFE/BN Composites. , 2020, , .		0
890	High intrinsic thermal conductivity in cellulose nanocrystal films through pitch regulation. Journal of Materials Chemistry A, 2021, 9, 27529-27540.	5.2	4
891	Carbon fiber reinforced elastomeric thermal interface materials for spacecraft. Carbon, 2022, 187, 432-438.	5.4	30
892	A copper organic phosphonate functionalizing boron nitride nanosheet for PVA film with excellent flame retardancy and improved thermal conductive property. Composites Part A: Applied Science and Manufacturing, 2022, 153, 106738.	3.8	15
893	An electrospinningâ€“electrospraying technique for connecting electrospun fibers to enhance the thermal conductivity of boron nitride/polymer composite films. Composites Part B: Engineering, 2022, 230, 109505.	5.9	60
894	Enhancing thermal conductivity of silicone rubber via constructing hybrid spherical boron nitride thermal network. Journal of Applied Polymer Science, 2022, 139, 51943.	1.3	7
895	Graphene/Naphthalene Sulfonate Composite Films with High Electrical and Thermal Conductivities for Energy Storage and Thermal Management in Nanoscale Electronic Devices. ACS Applied Nano Materials, 0, , .	2.4	5
896	Flexible and High Thermal Conductivity Composites Based on Graphite Nanoplates Paper Impregnated with Polydimethylsiloxane. Journal of Composites Science, 2021, 5, 309.	1.4	2
897	Biodegradation and performance of poly(É›â€caprolactone)/macaÃba biocomposites. Polymer Composites, 2022, 43, 998-1011.	2.3	4
898	Development of a high-performance heat dissipation sheet with three-dimensional alumina fibrous structure fabricated by freeze-drying. Results in Materials, 2022, 13, 100241.	0.9	9
899	Improved Thermal Properties of Three-Dimensional Graphene Network Filled Polymer Composites. Journal of Electronic Materials, 2022, 51, 420-425.	1.0	6
900	High thermal conductivity graphene oxide/carbon nanotubes/butyl rubber composites prepared by a dry ice expansion <scp>preâ€dispersion</scp> flocculation method. Journal of Applied Polymer Science, 2022, 139, 51897.	1.3	11
901	Carbon as a solution for nanocellular foam superinsulation. Carbon, 2022, 189, 319-338.	5.4	9
902	Millefeuilleâ€Inspired Thermal Interface Materials based on Double Selfâ€Assembly Technique for Efficient Microelectronic Cooling and Electromagnetic Interference Shielding. Small, 2022, 18, e2105567.	5.2	21
903	Enhanced Thermal Conductivity of Composite Materials by Filling Sheet and Fiber Under Effect of Filler Contact. Journal of Heat Transfer, 2022, 144, .	1.2	0
904	Physical property and interface binding energy calculation of polyimide/boron nitride nanosheets thermally conductive composite insulating materials. Computational Materials Science, 2022, 210, 111051.	1.4	7

#	Article	IF	Citations
905	Core-Shell Sr2CeO4@SiO2 Filled COC-Based Composites with Low Dielectric Loss for High-Frequency Substrates. Polymers, 2021, 13, 4006.	2.0	3
906	Preparation and characterization of BN modified PA6/PC thermal conductive composites. Soft Materials, 2022, 20, 278-287.	0.8	1
907	Polycaprolactone Adsorption and Nucleation onto Graphite Nanoplates for Highly Flexible, Thermally Conductive, and Thermomechanically Stiff Nanopapers. ACS Applied Materials & Interfaces, 2021, , .	4.0	5
908	The effect of boride fillers on curing kinetics, mechanical performance and thermal conductivity of polyurethane/epoxy resins. Materials Chemistry and Physics, 2022, 277, 125514.	2.0	5
909	Testing a simple Lee's disc method for estimating throuh-plane thermal conductivity of polymeric ion-exchange membranes. International Journal of Heat and Mass Transfer, 2022, 184, 122295.	2.5	5
910	Covalently integrated silica nanoparticles in poly(ethylene glycol)-based acrylate resins: thermomechanical, swelling, and morphological behavior. Soft Matter, 2022, , .	1.2	4
911	The fabrication of polyethylene/graphite nanoplatelets composites for thermal management and electromagnetic interference shielding application. Journal of Materials Science, 2022, 57, 1084-1097.	1.7	6
912	Advances on materials design and manufacture technology of plastic liner of type â…£ hydrogen storage vessel. International Journal of Hydrogen Energy, 2022, 47, 8382-8408.	3.8	29
913	Globally enhanced thermal, mechanical and electrical properties of current-field grading composites with self-assembly semiconducting grains on 3D cellulose aerogel scaffolds. Composites Science and Technology, 2022, 218, 109197.	3.8	7
914	A facile method to prepare layered solid fillers-based polymer composites with isotropic thermal conductivity. Composites Part A: Applied Science and Manufacturing, 2022, 154, 106776.	3.8	11
915	Ladder-structured boron nitride nanosheet skeleton in flexible polymer films for superior thermal conductivity. Applied Materials Today, 2022, 26, 101299.	2.3	16
916	Micro-diamond assisted bidirectional tuning of thermal conductivity in multifunctional graphene nanoplatelets/nanofibrillated cellulose films. Carbon, 2022, 189, 265-275.	5.4	35
917	Thermal and Thermomechanical Investigation of Polymeric Thin Films on Substrate. , 2020, , .		1
918	Thermal management with a new encapsulation approach for a medical device. , 2020, , .		1
919	Thermal Characteristics of Various Silicone Rubber Composites Filled with Silica. , 2020, , .		1
920	Effect of Microscale and Nanoscale Hybrid Boron Nitride Fillers on Arc Ablation Performance of PTFE. , 2020, , .		0
921	Holocellulose Nanofibrils Assisted Exfoliation of Boron Nitride Nanosheets for Fabricating High-Performance Thermal Management Nanocomposite Paper. SSRN Electronic Journal, 0, , .	0.4	0
922	Nanoparticles Filled Polymer Nanocomposites: A Technological Review. Cogent Engineering, 2021, 8, .	1.1	26

#	Article	IF	Citations
923	High-Performance Thermal Interface Materials with Magnetic Aligned Carbon Fibers. Materials, 2022, 15, 735.	1.3	10
924	Stretchable Phosphor/Boron Nitride Nanosheet/Polydimethylsiloxane Films for Thermal Management and Rapid Monitoring. ACS Applied Polymer Materials, 2022, 4, 1431-1439.	2.0	6
926	Research progress of polymers with high thermal conductivity. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 023601.	0.2	2
927	Thermally conductive polymer nanocomposites for filament-based additive manufacturing. Journal of Materials Science, 2022, 57, 3993-4019.	1.7	27
928	Improving thermal conductivities of textile materials by nanohybrid approaches. IScience, 2022, 25, 103825.	1.9	18
929	Effective Industryâ€“Academia Collaboration Driving Polymer Innovation. ACS Polymers Au, 0, , .	1.7	2
930	Review on three-dimensional ceramic filler networking composites for thermal conductive applications. Journal of Non-Crystalline Solids, 2022, 576, 121272.	1.5	18
931	Improvement in High Temperatureâ€Resistant Performance and Waterproof Property of Combustible Cartridge Case with BEMS Resin Based Composite Coating. Propellants, Explosives, Pyrotechnics, 2022, 47, .	1.0	3
932	Poliolefinas reforzadas con Ã³xido de grafeno reducido. Mediciones viscoelÃ¡sticas. Ingenierias, 2022, 25, 3-14.	0.2	0
933	An integrated XFEM modeling with experimental measurements for optimizing thermal conductivity in carbon nanotube reinforced polyethylene. Modelling and Simulation in Materials Science and Engineering, 2022, 30, 025014.	0.8	2
934	3D Printing of Nacre-Inspired Structures with Exceptional Mechanical and Flame-Retardant Properties. Research, 2022, 2022, 9840574.	2.8	18
935	Effective thermal conductivity of 3D-printed continuous wire polymer composites. Progress in Additive Manufacturing, 2022, 7, 699-712.	2.5	5
936	Future development, prospective, and challenges in the application of green nanocomposites in environmental remediation. , 2022, , 483-511.		2
937	Woodâ€Derived, Vertically Aligned, and Densely Interconnected 3D SiC Frameworks for Anisotropically Highly Thermoconductive Polymer Composites. Advanced Science, 2022, 9, e2103592.	5.6	18
938	Improvement of Heat Transfer Properties through TiO2 Nanosphere Monolayer Embedded Polymers as Thermal Interface Materials. Applied Sciences (Switzerland), 2022, 12, 1348.	1.3	0
939	Molecular dynamics simulation of the formation mechanism of the thermal conductive filler network of polymer nanocomposites. Physical Chemistry Chemical Physics, 2022, 24, 4334-4347.	1.3	3
940	A novel three-dimensional boron phosphide network for thermal management of epoxy composites. Composites Part B: Engineering, 2022, 233, 109662.	5.9	16
941	Improving in-plane and out-of-plane thermal conductivity of polyimide/boron nitride film with reduced graphene oxide by a moving magnetic field induction. Composites Science and Technology, 2022, 220, 109292.	3.8	30

#	Article	IF	Citations
942	Powder bed fusion of aluminum â€“poly(ethylene terephthalate) hybrid powder: Process behavior and characterization of printed parts. Additive Manufacturing, 2022, 51, 102616.	1.7	1
943	Recent progress in polymer/two-dimensional nanosheets composites with novel performances. Progress in Polymer Science, 2022, 126, 101505.	11.8	105
944	Parametric optimization of the effective thermal conductivity for a three-phase particle-filled composite. Computational Materials Science, 2022, 205, 111214.	1.4	2
946	Fabrication of thermal conductivity enhanced polymer composites with <scp>threeâ€dimensional</scp> networks based on natural cotton. Polymer Composites, 2022, 43, 1832-1843.	2.3	9
947	Improved thermal conductivity and mechanical property of mercapto group-activated boron nitride/elastomer composites for thermal management. Composites Part A: Applied Science and Manufacturing, 2022, 156, 106869.	3.8	41
948	High conductivity thermoelectric insulation composite silicone rubber prepared by carbon nanotubes and silicon carbide composite filler. Polymer Composites, 2022, 43, 2139-2149.	2.3	9
949	Mechanical and Thermal Behavior of Recycled Low-Density Polyethylene Composites with Coal Mining Waste. Materials Circular Economy, 2022, 4, 1.	1.6	2
950	Soft Organic Thermoelectric Materials: Principles, Current State of the Art and Applications. Small, 2022, 18, e2104922.	5.2	32
951	A study on the viscosity reduction mechanism of high-filled silicone potting adhesive by the formation of Al₂O₃ clusters. RSC Advances, 2022, 12, 10097-10104.	1.7	1
952	Numerical Computation of Anisotropic Thermal Conductivity in Injection Molded Polymer Heat Sink Filled with Graphite Flakes. SSRN Electronic Journal, 0, , .	0.4	0
953	Composite materials: Concept, recent advancements, and applications. , 2022, , 1-43.		1
954	Correlation of self-assembly and thermal conducting properties of PEG-backbone polyether with a room temperature mesophase. Molecular Systems Design and Engineering, 2022, 7, 520-527.	1.7	4
955	Robust composite film with high thermal conductivity and excellent mechanical properties by constructing a long-range ordered sandwich structure. Journal of Materials Chemistry A, 2022, 10, 9922-9931.	5.2	20
956	Enhancement of intrinsic thermal conductivity of liquid crystalline epoxy through the strategy of interlocked polymer networks. Materials Chemistry Frontiers, 2022, 6, 1137-1149.	3.2	12
957	UV curing polyurethaneâ€“acrylate composites as full filling thermal interface materials. New Journal of Chemistry, 0, , .	1.4	0
958	Research Progress in Thermal Conductivity of Polymer Matrix Composites. Materials Science Forum, 0, 1054, 111-116.	0.3	3
959	Lightweight Polyethylene/Hexagonal Boron Nitride Hybrid Thermal Conductor Fabricated by Melt Compounding Plus Salt Leaching. Polymers, 2022, 14, 852.	2.0	2
960	Polymerâ€based nanocomposites with ultraâ€high inâ€plane thermal conductivity via highly oriented boron nitride nanosheets. Polymer Composites, 2022, 43, 2341-2349.	2.3	16

#	Article	IF	Citations
961	Evaluation of Surfactants on Graphene Dispersion and Thermal Performance for Heat Dissipation Coating. Polymers, 2022, 14, 952.	2.0	4
962	Phase Change Materials with Enhanced Thermal Conductivity and Heat Propagation in Them. Physchem, 2022, 2, 18-42.	0.5	1
963	Synchronously improved thermal conductivity and mechanical property for polybenzimidazole composites by building the ternary hybrid nanofillers networks. Polymer Composites, 0, , .	2.3	3
964	Liquid phase exfoliated nanosheets as multifunctional fillers to semicrystalline polymers. Journal of Macromolecular Science - Pure and Applied Chemistry, 2022, 59, 257-270.	1.2	2
965	Thermal Percolation in Well-Defined Nanocomposite Thin Films. ACS Applied Materials & Interfaces, 2022, 14, 14579-14587.	4.0	7
966	Characteristic and Synthesis of High-Temperature Resistant Liquid Crystal Epoxy Resin Containing Boron Nitride Composite. Polymers, 2022, 14, 1252.	2.0	6
967	Dopamine-Mediated Bacterial Cellulose/Hexagonal Boron Nitride Composite Films with Enhanced Thermal and Mechanical Performance. Industrial & Engineering Chemistry Research, 2022, 61, 4601-4611.	1.8	11
968	Thermal Conductivity Measurement of a Polymer Material Using a Steady-State Temperature Field. Experimental Techniques, 2023, 47, 483-491.	0.9	1
969	Mechanical and physical characteristics of hybrid particles/fibers-polymer composites: A review. Materials Today: Proceedings, 2022, 62, 178-183.	0.9	6
970	Fabricating High-Thermal-Conductivity, High-Strength, and High-Toughness Polylactic Acid-Based Blend Composites via Constructing Multioriented Microstructures. Biomacromolecules, 2022, 23, 1789-1802.	2.6	12
971	Sepiolite Fiber Supports Tin Powder and Boron Nitride to Prepare Epoxy Composites with Insulation Properties and High Through-Plane Thermal Conductivity. ACS Applied Electronic Materials, 0, , .	2.0	2
972	Improving thermal conductivity of polyethylene/polypropylene by styrene-ethylene-propylene-styrene wrapping hexagonal boron nitride at the phase interface. Advanced Composites and Hybrid Materials, 2022, 5, 1090-1099.	9.9	85
973	Anisotropically enhancing thermal conductivity of epoxy composite with a low filler load by an AlN/C fiber skeleton. Ceramics International, 2022, 48, 17604-17610.	2.3	10
974	Thermal transport in silver-coated polymer sphere composites by the bidirectional 3Ï‰ method. Journal of Applied Physics, 2022, 131, 125107.	1.1	1
975	Microscopic Pyrolytic and Electric Decomposition Mechanism of Insulating Polyimide/Boron Nitride Nanosheet Composites based on ReaxFF. Polymers, 2022, 14, 1169.	2.0	4
976	Preparation of mechanically stripped functionalized multilayer graphene and its effect on thermal conductivity of polyethylene composites. Journal of Polymer Research, 2022, 29, 1.	1.2	3
977	A comprehensive review on the thermal, electrical, and mechanical properties of graphene-based multi-functional epoxy composites. Advanced Composites and Hybrid Materials, 2022, 5, 547-605.	9.9	54
978	Compatibilizing and functionalizing polypropylene/polyethylene by in-situ exfoliating hexagonal boron nitride at interface. Composites Science and Technology, 2022, 221, 109354.	3.8	6

#	Article	IF	Citations
979	Improved thermal conductivity of ceramic-epoxy composites by constructing vertically aligned nanoflower-like AlN network. Ceramics International, 2022, 48, 10438-10446.	2.3	12
980	Annealing-induced enhancement of electrical conductivity and electromagnetic interference shielding in injection-molded CNT polymer composites. Polymer, 2022, 245, 124680.	1.8	11
981	Surface-Functionalized Auâ€“Pd Nanorods with Enhanced Photothermal Conversion and Catalytic Performance. ACS Applied Materials & Interfaces, 2022, 14, 17259-17272.	4.0	11
982	Improvement of thermal conductivity and latent heat of cellulose film using surfactant and surface-treated CNT with stearic acid. Composites Part A: Applied Science and Manufacturing, 2022, 156, 106897.	3.8	7
983	Effect of functional filler morphology on the crystallization behavior and thermal conductivity of PET resin: A comparative study of three different shapes of BN as heterogeneous nucleating agents. Composites Science and Technology, 2022, 222, 109346.	3.8	9
984	Nacre-mimetic elastomer composites with synergistic alignments of boron nitride/graphene oxide towards high through-plane thermal conductivity. Composites Part A: Applied Science and Manufacturing, 2022, 156, 106891.	3.8	19
985	Optimum convergence parameters of lattice Boltzmann method for predicting effective thermal conductivity. Computer Methods in Applied Mechanics and Engineering, 2022, 394, 114891.	3.4	7
986	Flexible, thermostable and flame-resistant epoxy-based thermally conductive layered films with aligned ionic liquid-wrapped boron nitride nanosheets via cyclic layer-by-layer blade-casting. Chemical Engineering Journal, 2022, 437, 135482.	6.6	47
987	A scalable highly thermal conductive silicone rubber composite with orientated graphite by pre-vulcanizing and multilayer stacking method. Composites Part A: Applied Science and Manufacturing, 2022, 157, 106944.	3.8	9
988	Thermal conductivity of polydisperse hexagonal BN/polyimide composites: Iterative EMT model and machine learning based on first principles investigation. Chemical Engineering Journal, 2022, 437, 135438.	6.6	32
989	The effect of annealing time on morphology, mechanical properties, and thermal conductivity of HDPE pipes produced by rotational shear. Materials Today Communications, 2022, 31, 103321.	0.9	1
990	3D self-bonded porous graphite fiber monolith for phase change material composite with high thermal conductivity. Chemical Engineering Journal, 2022, 438, 135496.	6.6	22
991	Research on novel battery thermal management system coupling with shape memory PCM and molecular dynamics analysis. Applied Thermal Engineering, 2022, 210, 118373.	3.0	10
992	Achieving high out-of-plane thermal conductivity for boron nitride nano sheets/epoxy composite films by magnetic orientation. Composites Part A: Applied Science and Manufacturing, 2022, 157, 106933.	3.8	26
993	High-performance cellulose nanofiber-derived composite films for efficient thermal management of flexible electronic devices. Chemical Engineering Journal, 2022, 439, 135675.	6.6	26
994	A bottom-up approach to generate isotropic liquid metal network in polymer-enabled 3D thermal management. Chemical Engineering Journal, 2022, 439, 135674.	6.6	19
995	Fast-thermoresponsive carboxylated carbon nanotube/chitosan aerogels with switchable wettability for oil/water separation. Journal of Hazardous Materials, 2022, 433, 128808.	6.5	39
996	Rational design of graphene/polymer composites with excellent electromagnetic interference shielding effectiveness and high thermal conductivity: a mini review. Journal of Materials Science and Technology, 2022, 117, 238-250.	5.6	72

#	Article	IF	Citations
997	Fabrication and Cooling Performance Optimization of Stretchable Thermoelectric Cooling Device. ACS Applied Electronic Materials, 2021, 3, 5433-5442.	2.0	9
998	Luting indirect restorations with resin cements versus composite resins: Effects of preheating and ultrasound energy on film thickness. Journal of Esthetic and Restorative Dentistry, 2022, 34, 641-649.	1.8	9
999	Dielectric AlN/epoxy and SiC/epoxy composites with enhanced thermal and dynamic mechanical properties at low temperatures. Progress in Natural Science: Materials International, 2022, 32, 304-313.	1.8	3
1000	Epoxy/hybrid grapheneâ€copper nanocomposite materials with enhanced thermal conductivity. Journal of Applied Polymer Science, 2022, 139, .	1.3	4
1001	Processing, thermal conductivity and flame retardant properties of silicone rubber filled with different geometries of thermally conductive fillers: A comparative study. Composites Part B: Engineering, 2022, 238, 109907.	5.9	76
1002	Fabrication of high dielectric properties and higher thermal conductivity thermoplastic polyurethane composites with CNT-covered SrTiO3. Polymer Testing, 2022, 110, 107576.	2.3	7
1005	Synthesis of mono- and polyfunctional organosilicon derivatives of polyhedral carboranes for the preparation of hybrid polymer materials. New Journal of Chemistry, 2022, 46, 11143-11148.	1.4	8
1006	Autonomous Search for Polymers with High Thermal Conductivity Using a Rapid Greenâ€“Kubo Estimation. Macromolecules, 2022, 55, 3384-3395.	2.2	6
1007	An elastomeric composite with tunable thermal and mechanical properties via liquid metal-flake graphite multiphase fillers. International Journal of Modern Physics B, 2022, 36, .	1.0	2
1008	Toward Continuous-Wave Pumped Metal Halide Perovskite Lasers: Strategies and Challenges. ACS Nano, 2022, 16, 7116-7143.	7.3	32
1009	Interfacial thermal resistance in polymer composites: a molecular dynamic perspective. Molecular Simulation, 2022, 48, 902-925.	0.9	1
1010	Polymer Grafted Nanoparticle Composites with Enhanced Thermal and Mechanical Properties. ACS Applied Materials & Interfaces, 2022, 14, 21535-21543.	4.0	9
1011	Diacetylene-Containing Dual-Functional Liquid Crystal Epoxy Resin: Strategic Phase Control for Topochemical Polymerization of Diacetylenes and Thermal Conductivity Enhancement. Macromolecules, 2022, 55, 4402-4410.	2.2	19
1012	3D modified graphene-carbon fiber hybridized skeleton/PDMS composites with high thermal conductivity. Composites Science and Technology, 2022, 225, 109499.	3.8	19
1013	Origin of high thermal conductivity in disentangled ultra-high molecular weight polyethylene films: ballistic phonons within enlarged crystals. Nature Communications, 2022, 13, 2452.	5.8	13
1014	One-pot superhydrophilic surface modification of waste polyurethane foams for high-efficiency oil/water separation. Journal of Environmental Management, 2022, 315, 115140.	3.8	9
1015	Molecular alignment induced high thermal conductivity in amorphous/ low crystalline polyimide fibers. International Journal of Heat and Mass Transfer, 2022, 193, 122959.	2.5	5
1016	Holocellulose nanofibrils assisted exfoliation of boron nitride nanosheets for thermal management nanocomposite films. Carbohydrate Polymers, 2022, 291, 119578.	5.1	11

#	Article	IF	Citations
1017	Three-dimensional boron nitride network/polyvinyl alcohol composite hydrogel with solid-liquid interpenetrating heat conduction network for thermal management. Journal of Materials Science and Technology, 2022, 127, 183-191.	5.6	16
1018	Enhanced thermal conductivity of epoxy acrylate/<scp>hâ€BN</scp> and <scp>AlN</scp> composites by photoâ€curing <scp>3D</scp> printing technology. Journal of Applied Polymer Science, 2022, 139, .	1.3	6
1019	Advances on Thermally Conductive Epoxyâ€Based Composites as Electronic Packaging Underfill Materialsâ€”A Review. Advanced Materials, 2022, 34, e2201023.	11.1	61
1020	Preparation and Thermal Conductivity of FG/PP Composites. MATEC Web of Conferences, 2022, 358, 01037.	0.1	0
1021	Experimental and computational study of the thermal conductivity of polymeric micro spheres/polyester thermal insulating coatings. Polymer Bulletin, 2023, 80, 4387-4406.	1.7	2
1022	Anisotropic Thermally Conductive Composites Enabled by Acoustophoresis and Stereolithography. Advanced Functional Materials, 2022, 32, .	7.8	6
1023	Enhancing the through-plane thermal conductivity of a cellulose nanofiber film via boron nitride surface functionalization and cellulose chemical crosslinking. Ceramics International, 2022, 48, 25284-25291.	2.3	11
1024	The effect of peroxide cross-linking on the thermal conductivity and crystallinity of low-density polyethylene. Materials Today Communications, 2022, 31, 103735.	0.9	4
1025	Eco-friendly chitosan@silver/plant fiber membranes for masks with thermal comfortability and self-sterilization. Cellulose, 2022, 29, 5711-5724.	2.4	9
1026	Facile synthesis of lipophilic alkylated boron nitride nanosheets as lubricating oil additive to greatly enhance the friction and heat-conducting properties. Tribology International, 2022, 173, 107655.	3.0	6
1027	Investigation on the Electrical and Magnetic Properties of Pvdf/Srfe12o19 Composite Membranes. SSRN Electronic Journal, 0, , .	0.4	1
1028	Molecular-Scale Investigation on Relationship between Thermal Conductivity and the Structure of Crosslinked Epoxy Resin. SSRN Electronic Journal, 0, , .	0.4	0
1029	3d Printed Polylactic Acid/Graphene Nanocomposites with Tailored Multifunctionality Towards Superior Thermal Management and High-Efficient Electromagnetic Interference Shielding. SSRN Electronic Journal, 0, , .	0.4	0
1030	Micro/nanoarrays and their applications in flexible sensors: A review. Materials Today Nano, 2022, 19, 100224.	2.3	9
1031	Mechanical, Thermal and Electrical Properties of Epoxy Nanocomposites with Amine-Functionalized Reduced Graphene Oxide via Plasma Treatment. Journal of Composites Science, 2022, 6, 153.	1.4	8
1032	Effects of Ligands in Rare Earth Complex on Properties, Functions, and Intelligent Behaviors of Polyureaâ€“Urethane Composites. Polymers, 2022, 14, 2098.	2.0	1
1033	0D surface modification and 3D silicon carbide network construction for improving the thermal conductivity of epoxy resins. Ceramics International, 2022, 48, 26651-26659.	2.3	4
1034	A review of the thermal conductivity of silver-epoxy nanocomposites as encapsulation material for packaging applications. Chemical Engineering Journal, 2022, 446, 137319.	6.6	40

#	Article	IF	Citations
1035	Recent advances in thermally conductive polymer composites. High Performance Polymers, 2022, 34, 1081-1101.	0.8	4
1036	A review of electrical and thermal conductivities of epoxy resin systems reinforced with carbon nanotubes and graphene-based nanoparticles. Polymer Testing, 2022, 112, 107645.	2.3	51
1037	Enhanced thermal conductivity of epoxy resin by incorporating pitch-based carbon fiber modified by Diels-Alder reaction. Diamond and Related Materials, 2022, 127, 109148.	1.8	3
1038	Efficient exfoliation and functionalization of hexagonal boron nitride using recyclable ionic liquid crystal for thermal management applications. Chemical Engineering Journal, 2022, 446, 137255.	6.6	23
1039	Enhanced thermal transportation across an electrostatic self-assembly of black phosphorene and boron nitride nanosheets in flexible composite films. Nanoscale, 2022, 14, 9743-9753.	2.8	10
1040	Effect of graphene structure, processing method, and polyethylene type on the thermal conductivity of polyethylene-graphene nanocomposites. , 2022, , 433-444.		0
1041	Stretching Induced Alignment of Graphene Nanoplatelets in Polyurethane Films for Superior In-Plane Thermal Conductivity and Electromagnetic Interference Shielding. SSRN Electronic Journal, 0, , .	0.4	0
1042	State-of-the-art, opportunities, and challenges in bottom-up synthesis of polymers with high thermal conductivity. Polymer Chemistry, 2022, 13, 4462-4483.	1.9	8
1043	Synthesis and Thermal Management Performance of Boron Phosphide with High Thermal Conductivity by Molten Salt Method. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2022, , 721.	0.6	0
1044	Wireless and Battery-Less Tamper Detection With Pyroelectric Energy Converter and High-Overtone Bulk Acoustic Resonator. IEEE Sensors Journal, 2022, 22, 14639-14646.	2.4	2
1045	High intrinsic thermally conductivity side-chain liquid crystalline polysiloxane films grafted with pendent difunctional mesogenic groups. Polymer Chemistry, 2022, 13, 3915-3929.	1.9	3
1046	Toward high-power-density laser-driven lighting: enhancing heat dissipation in phosphor-in-glass film by introducing h-BN. Optics Letters, 2022, 47, 3455.	1.7	14
1047	Epoxy composites with high thermal conduction routes via in situ constructing â€œpeaâ€podâ€likeâ€• aluminaâ€boron nitride <scp>3D</scp> structure. Polymer Composites, 2022, 43, 7420-7427.	2.3	17
1048	Fabrication of copper powder hybrid supported fillers with interconnected 1D/2D/3D nanostructures for enhanced thermal interface materials properties. International Journal of Advanced Manufacturing Technology, 2022, 121, 3453-3462.	1.5	5
1049	Biomimetic Nacreous Composite Films toward Multipurpose Application Structured by Aramid Nanofibers and Edge-Hydroxylated Boron Nitride Nanosheets. Industrial & Engineering Chemistry Research, 2022, 61, 8881-8894.	1.8	21
1050	Multi-scale and multi-step modeling of thermal conductivities of 3D braided composites. International Journal of Mechanical Sciences, 2022, 228, 107466.	3.6	9
1051	Heat Transfer Enhancement of n-Type Organic Semiconductors by an Insulator Blend Approach. ACS Applied Materials & Interfaces, 0, , .	4.0	1
1052	Electrical and thermal percolation in two-phase materials: A perspective. Journal of Applied Physics, 2022, 131, .	1.1	12

#	Article	IF	Citations
1053	Si3N4 whisker/MPPO composite substrate with low dielectric loss and high thermal conductivity. Journal of Materials Science: Materials in Electronics, 2022, 33, 17190-17198.	1.1	1
1054	Spherical boron nitride/pitchâ€based carbon fiber/silicone rubber composites for high thermal conductivity and excellent electromagnetic interference shielding performance. Journal of Applied Polymer Science, 2022, 139, .	1.3	9
1055	Plastic composites as sustainable building materials: A thermal and mechanical exploration. Construction and Building Materials, 2022, 344, 128083.	3.2	8
1056	Sandwich-Structured Flexible PVA/CS@MWCNTs Composite Films with High Thermal Conductivity and Excellent Electrical Insulation. Polymers, 2022, 14, 2512.	2.0	7
1057	Emerging Flexible Thermally Conductive Films: Mechanism, Fabrication, Application. Nano-Micro Letters, 2022, 14, .	14.4	47
1058	Thermal characterization of short carbon fiber reinforced high temperature polymer material produced using the fused filament fabrication process. Journal of Manufacturing Processes, 2022, 80, 515-528.	2.8	10
1059	Ma Lao-like structural fireproof aramid nanofiber@Ag nanocomposite film enhanced with MXene for advanced thermal management applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 649, 129370.	2.3	3
1060	Orientation behavior and thermal conductivity of liquid crystal polymer composites based on Three-Dimensional printing. Composites Part A: Applied Science and Manufacturing, 2022, 160, 107059.	3.8	22
1061	Enhanced high-temperature dielectric performances of polyetherimide-based composites via surface functionalized silicon carbide whiskers. Applied Surface Science, 2022, 599, 153991.	3.1	5
1062	Tailoring Three-Dimensional copper framework in polyamide 6 for High-Performance thermal management applications. Chemical Engineering Journal, 2022, 447, 137508.	6.6	8
1063	Additive Manufacturing of 3D Circuit Carriers with Improved Thermal Conductivity. , 2022, , .		3
1064	Simulation of the Filler Stuck Mechanism in Molding Process and Verification. , 2022, , .		1
1065	Continuous Nanoparticle Patterning Strategy in Layerâ€Structured Nanocomposite Fibers. Advanced Functional Materials, 2022, 32, .	7.8	5
1066	Preparation of thermally conductive flexible liquid silicone rubber composites by magnetic fieldâ€induced selfâ€assembly of <scp> Fe ₃ O ₄ </scp> @C. Journal of Applied Polymer Science, 2022, 139, .	1.3	3
1067	3D-network of hybrid epoxy-boron nitride microspheres leading to epoxy composites of high thermal conductivity. Journal of Materials Science, 2022, 57, 11698-11713.	1.7	4
1068	A Thermal Conductive Epoxy Composite based on Spherical MgO Particles and Boron Nitride Sheets. Journal of Macromolecular Science - Physics, 2022, 61, 595-610.	0.4	6
1069	Evaluating the thermal insulation performance of composite panels made of natural Luffa fibres and urea-formaldehyde resin for buildings in the hot arid region. Advances in Building Energy Research, 2022, 16, 696-710.	1.1	8
1070	Thermally conductive polymer composites for thermal management of electric machines: A modeling and experimental study. Materials Today Communications, 2022, 32, 104018.	0.9	0

#	Article	IF	Citations
1071	High-Precision Thin Wall Bipolar Plates for Fuel Cell Applications via Injection Compression Molding with Dynamic Mold Temperature Control. Polymers, 2022, 14, 2799.	2.0	5
1072	Thermal, electrical and mechanical properties of carbon fiber/copper powder/carbon black reinforced hybrid Polyamide 6,6 composites. High Performance Polymers, 2023, 35, 103-114.	0.8	1
1073	Enhanced thermal conductivity of epoxy polymer alloys blend with fluorine-contained hybrid silicon dioxide. Journal of Polymer Research, 2022, 29, .	1.2	2
1074	Visualizing the Orientation of Single Polymers Induced by Spin-Coating. Nano Letters, 2022, 22, 5891-5897.	4.5	9
1075	Flexible thermoelectric generator with high Seebeck coefficients made from polymer composites and heat-sink fabrics. Communications Materials, 2022, 3, .	2.9	14
1076	Mechanical and Thermal Conductive Properties of Natural And Synthetic Cellulose Reinforced Epoxy Composites. IIUM Engineering Journal, 2022, 23, 193-204.	0.5	1
1077	Thermal energy storage properties, thermal conductivity, chemical/and thermal reliability of three different organic phase change materials doped with hexagonal boron nitride. Surfaces and Interfaces, 2022, 32, 102176.	1.5	9
1078	Interlayer decoration of expanded graphite by polyimide resins for preparing highly thermally conductive composites with superior electromagnetic shielding performance. Carbon, 2022, 198, 1-10.	5.4	12
1079	Ionic Liquidâ€Based Polymer Nanocomposites for Sensors, Energy, Biomedicine, and Environmental Applications: Roadmap to the Future. Advanced Science, 2022, 9, .	5.6	62
1080	Effects of two silane surface modifications with different functional groups on the thermal conductivity and mechanical properties of UV-cured composites with high ceramic filler loading. Ceramics International, 2022, 48, 32001-32008.	2.3	3
1081	Facile strategy for the preparation of green graphene rubber with enhanced interfacial interaction and thermal management capability. Journal of Applied Polymer Science, 2022, 139, .	1.3	3
1082	Enhanced thermal and electrical properties of hybrid polymer composites containing Al2O3 microspheres and nanowires. Ceramics International, 2022, 48, 32081-32088.	2.3	6
1083	Magnetic alignment of electrochemically exfoliated graphite in epoxy as a thermal interface material with high through-plane thermal conductivity. Carbon Letters, 2022, 32, 1433-1439.	3.3	6
1084	Enhanced thermal conductivity of polycarbonateâ€based composites by constructing a dense filler packing structure consisting of hybrid boron nitride and flake graphite. Journal of Applied Polymer Science, 2022, 139, .	1.3	5
1085	Morphological, mechanical, and thermal properties of polyurethane nanocomposites coâ€incorporated with microâ€•<scp> Al ₂ O ₃ </scp> /nanoâ€•<scp> Al ₂ O ₃ </scp> for flexible thermal conductive component applications. Journal of Applied Polymer Science, 0, , .	1.3	0
1086	Effects of bending on the electro-optical properties of a wide-band silicon-carbon nanotube-based metamaterial absorber. Materials Today Communications, 2022, 32, 104073.	0.9	2
1087	3D printed polylactic acid/graphene nanocomposites with tailored multifunctionality towards superior thermal management and high-efficient electromagnetic interference shielding. Chemical Engineering Journal, 2022, 450, 138248.	6.6	22
1088	A dual cooling composite film by subtly combining phase change materials and thermally conductive fillers for efficient thermal management. Journal of Materials Science, 2022, 57, 14464-14477.	1.7	3

#	Article	IF	Citations
1089	Silver nanoparticles-coated 2D glass-flakes reinforced polyurea composites with high thermal conductivity, acceptable toughness and thermal stability. Iranian Polymer Journal (English Edition), 0, , .	1.3	0
1090	Lightweight and thermally conductive thermoplastic polyurethane/hollow glass bead/boron nitride composites with flame retardancy. Ceramics International, 2022, 48, 32748-32756.	2.3	4
1091	Scalable Fabrication of Anisotropic Nanocellular Foam by Hot-Press Foaming. Industrial & Engineering Chemistry Research, 2022, 61, 11790-11803.	1.8	0
1092	Influence of relative positions of the heat carrier and lateral canal opening on gutta-percha obturation of lateral canals in a three-dimensional-printed model. Journal of Dental Sciences, 2023, 18, 9-16.	1.2	1
1093	2D Boron Nitride Nanosheets for Smart Thermal Management and Advanced Dielectrics. Advanced Materials Interfaces, 2022, 9, .	1.9	17
1094	Achieving High Thermal Conductivity in Epoxy Resin Composites by Synergistically Utilizing Al₂O₃ Framework and BN Sheet as Fillers. Macromolecular Materials and Engineering, 2022, 307, .	1.7	6
1095	Enhancement of thermal conductivity of BN-Ni/epoxy resin composites through the orientation of BN-Ni fillers by magnetic field and hot-pressing. Ceramics International, 2022, 48, 33571-33579.	2.3	9
1096	Numerical Computation of Anisotropic Thermal Conductivity in Injection Molded Polymer Heat Sink Filled with Graphite Flakes. Polymers, 2022, 14, 3284.	2.0	0
1097	Influence of fillers on epoxy resins properties: a review. Journal of Materials Science, 2022, 57, 15183-15212.	1.7	31
1098	Synthesis and characterization of enhanced conductivity acrylonitrileâ€butadieneâ€styrene based composites suitable for fused filament fabrication. Polymer Composites, 2022, 43, 6611-6623.	2.3	6
1099	Scalable Fabrication of Thermally Conductive Layered Nacre-like Self-Assembled 3D BN-Based PVA Aerogel Framework Nanocomposites. Polymers, 2022, 14, 3316.	2.0	5
1100	High performances of polyimide/boron nitride nanosheets composites via integrative interfacial decoration strategy. Composites Science and Technology, 2022, 229, 109681.	3.8	8
1101	h-BN Modification Using Several Hydroxylation and Grafting Methods and Their Incorporation into a PMMA/PA6 Polymer Blend. Nanomaterials, 2022, 12, 2735.	1.9	3
1102	Flexible epoxyâ€dispersed liquid crystal membranes of intrinsic thermal conductivity with high voltage orientation molding. Journal of Applied Polymer Science, 2022, 139, .	1.3	4
1103	Improving Thermal Conductivity of Injection Molded Polycarbonate/Boron Nitride Composites by Incorporating Spherical Alumina Particles: The Influence of Alumina Particle Size. Polymers, 2022, 14, 3477.	2.0	3
1104	Fabrication, Thermal Conductivity, and Mechanical Properties of Hexagonal-Boron-Nitride-Pattern-Embedded Aluminum Oxide Composites. Nanomaterials, 2022, 12, 2815.	1.9	2
1105	Bio-based boronic ester vitrimer for realizing sustainable and highly thermally conducting nanocomposites. Composites Part B: Engineering, 2022, 244, 110181.	5.9	12
1106	Skeleton designable SGP/EA resin composites with integrated thermal conductivity, electromagnetic interference shielding, and mechanical performances. Composites Science and Technology, 2022, 229, 109686.	3.8	12

#	Article	IF	Citations
1107	Plasma-assisted self-assembled monolayers for reducing thermal resistance across graphite films/polymer interfaces. Composites Science and Technology, 2022, 229, 109690.	3.8	7
1108	Molecular simulation of the O2 diffusion and thermo-oxidative degradation mechanism of carbon-doped boron nitride nanosheets/BTDA-ODA polyimide composites with high O2 adsorption capacity. Surfaces and Interfaces, 2022, 33, 102246.	1.5	2
1109	Tailored carbon-based aramid nanofiber nanocomposites with highly anisotropic thermal conductivity and superior mechanical properties for thermal management. Carbon, 2022, 199, 367-378.	5.4	13
1110	Intrinsically and extrinsically anisotropic heat transport in bulk materials and nanostructures: A review. International Journal of Heat and Mass Transfer, 2022, 196, 123307.	2.5	6
1111	Tunability of the thermal diffusivity of cellulose nanofibril films by addition of multivalent metal ions. Carbohydrate Polymers, 2022, 297, 120010.	5.1	2
1112	Improvement of dielectric constant and mechanical properties of thermoplastic polyurethanes using surface modified strontium titanate. Polymer Composites, 2023, 44, 168-177.	2.3	5
1113	A combined method to probe the behaviour of the filler in polymer blend nanocomposites via X-ray diffraction and thermal measurement. Nano Structures Nano Objects, 2022, 32, 100906.	1.9	4
1114	Flexible and foldable films of wCDs/BNNS-OH/PVA white light composite with high stability and heat dissipation. Dyes and Pigments, 2022, 207, 110736.	2.0	3
1115	Integrated construction of silkworm cocoon-inspired 3D scaffold for improving cell manufacture and cryopreservation. International Journal of Biological Macromolecules, 2022, 221, 723-735.	3.6	1
1116	Application of polymer-based phase change materials in thermal safety management of power batteries. Journal of Energy Storage, 2022, 55, 105646.	3.9	16
1117	Processing of phase change materials by fused deposition modeling: Toward efficient thermal energy storage designs. Journal of Energy Storage, 2022, 55, 105581.	3.9	7
1118	Core-shell Cu@Al2O3 fillers for enhancing thermal conductivity and retaining electrical insulation of epoxy composites. Journal of Alloys and Compounds, 2022, 928, 167123.	2.8	10
1119	Molecular-scale investigation on relationship between thermal conductivity and the structure of crosslinked epoxy resin. International Journal of Heat and Mass Transfer, 2022, 198, 123429.	2.5	15
1120	Correlation between frictional heat and triboelectric charge: In operando temperature measurement during metal-polymer physical contact. Nano Energy, 2022, 103, 107813.	8.2	2
1121	Superior stretchable, low thermal resistance and efficient self-healing composite elastomers for thermal management. Journal of Materials Chemistry A, 2022, 10, 21923-21932.	5.2	21
1122	Research progress of high thermal conductivity polyimide dielectric films. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 233601.	0.2	3
1123	Facile Construction of Flexible Film Through Covalent Connection of Black Phosphorene and Carboxymethyl Chitosan for Simultaneous Enhancement in Flame Retardancy and Thermal Conductivity. SSRN Electronic Journal, 0, , .	0.4	0
1124	Design of an experimental study of high through-plane thermal conductivity hybrid epoxy composite insulation with superior dielectric strength. Materials Advances, 2022, 3, 7132-7141.	2.6	5

#	Article	IF	Citations
1125	Highly flexible cellulose nanofiber/single-crystal nanodiamond flake heat spreader films for heat dissipation. Journal of Materials Chemistry C, 2022, 10, 12070-12079.	2.7	11
1126	Effects of different factors on the heat and electrical conduction properties of carbon nanotube reinforced composite materials. SSRN Electronic Journal, 0, , .	0.4	0
1127	Aligned channel Gelatin@nanoGraphite aerogel supported form-stable phase change materials for solar-thermal energy conversion and storage. Carbon, 2023, 201, 756-764.	5.4	22
1128	Stretching induced alignment of graphene nanoplatelets in polyurethane films for superior in-plane thermal conductivity and electromagnetic interference shielding. Carbon, 2023, 201, 568-576.	5.4	27
1129	The coupling relationship between thermal conductivity and the toughness in thermal interface materials. , 2022, , .		1
1130	Highly Filled Composite Materials Based on UHMWPE and a Mixture of Micron and Nanoscale Aluminum Particles. Russian Journal of Physical Chemistry B, 2022, 16, 764-771.	0.2	3
1131	Graphene Fiber Film: A Promising Thermal Management Material in a Wide Temperature Range. , 2022, , .		0
1132	Investigation of thermal, mechanical and dielectrical properties of LiYO₂ filled poly(lactic acid) nanocomposites. International Journal of Polymer Analysis and Characterization, 2022, 27, 586-600.	0.9	2
1133	Physical Properties of Hybrid Epoxy Composites Reinforced with Carbon Fiber and Ceramic Particles. Diyala Journal of Engineering Sciences, 0, , 1-9.	0.3	0
1134	Crosslinking effect of borax additive on the thermal properties of polymer-based 1D and 2D nanocomposites used as thermal interface materials. Scientific Reports, 2022, 12, .	1.6	2
1135	Thermal conductivity of several geopolymer composites and discussion of their formulation. International Journal of Applied Ceramic Technology, 2023, 20, 475-486.	1.1	4
1136	AWI-Assembled TPU-BNNS Composite Films with High In-Plane Thermal Conductivity for Thermal Management of Flexible Electronics. ACS Applied Materials & Interfaces, 2022, 14, 41447-41455.	4.0	9
1137	Recent advances in nacre-inspired anisotropic thermally conductive polymeric nanocomposites. Nano Research, 2023, 16, 1362-1386.	5.8	18
1138	Preparation and Performance of Graphene Oxide Modified Polyurethane Thermal Conductive Insulating Adhesive. Journal Wuhan University of Technology, Materials Science Edition, 2022, 37, 1025-1031.	0.4	1
1139	Quasi-isotropic thermal conductivity of polymer films enhanced by binder-free boron nitride spheres. Composites Science and Technology, 2022, 230, 109769.	3.8	10
1140	A fundamental study of improving thermal interface connection by using silane modified, in-situ formed silver-graphene fillers in epoxy polymers for future semiconductor device packaging. Composites Science and Technology, 2022, 230, 109759.	3.8	1
1141	Effect of Chemical and Physical Treatments on Mechanical Properties of Diss Fibers-Based Biocomposites Materials. Journal of Natural Fibers, 2023, 20, .	1.7	1
1142	Magneticâ€Oriented Nickel Particles and Nickelâ€Coated Carbon Nanotubes: an Efficient Tool for Enhancing Thermal Conductivity of PDMS Composites. Macromolecular Chemistry and Physics, 0, , 2200199.	1.1	0

#	Article	IF	Citations
1143	Reaction-induced phase separation towards in situ network in epoxy resins for simultaneously improving thermal conductivity and fire safety. Composites Part B: Engineering, 2022, 247, 110326.	5.9	10
1144	Thermal conductivity of polyurethane sheets containing beryllium oxide nanofibers. RSC Advances, 2022, 12, 30125-30134.	1.7	2
1145	Enhanced thermal conductivity in copolymerized polyimide. IScience, 2022, 25, 105451.	1.9	2
1146	Development and Perspectives of Thermal Conductive Polymer Composites. Nanomaterials, 2022, 12, 3574.	1.9	6
1147	Absorption Dominated Directional Electromagnetic Interference Shielding through Asymmetry in a Multilayered Construct with an Exceptionally High Green Index. ACS Applied Materials & Interfaces, 2022, 14, 49140-49157.	4.0	23
1148	A review on the preparation and application of BN composite coatings. Ceramics International, 2023, 49, 24-39.	2.3	15
1150	â€œOne stone, two birdsâ€•solvent system to fabricate microcrystalline cellulose-Ti3C2Tx nanocomposite film as a flexible dielectric and thermally conductive material. Nano Research, 2023, 16, 3240-3253.	5.8	5
1151	Rational design of graphene structures for preparing high-performance thermal interface materials: A mini review. Science China: Physics, Mechanics and Astronomy, 2022, 65, .	2.0	3
1152	Irregular Shape Effect of Brass and Copper Filler on the Properties of Metal Epoxy Composite (MEC) for Rapid Tooling Application. Journal of Manufacturing and Materials Processing, 2022, 6, 134.	1.0	0
1153	Glucose-Assisted Exfoliation of Hexagonal Boron Nitride Nanosheets and Modification with Hyperbranched Polymers for Thermally Conductive Epoxy Composites: Implications for Thermal Management. ACS Applied Nano Materials, 2022, 5, 16315-16324.	2.4	9
1154	Unified modeling and experimental realization of electrical and thermal percolation in polymer composites. Applied Physics Reviews, 2022, 9, .	5.5	4
1155	Boron nitride based polymer nanocomposites for heat dissipation and thermal management applications. Applied Materials Today, 2022, 29, 101672.	2.3	9
1156	Preparation of polymer composites with high thermal conductivity by constructing a â€œdouble thermal conductive networkâ€•via electrostatic spinning. Composites Communications, 2022, 36, 101371.	3.3	18
1157	Isotropic porous graphite foam/epoxy composites with outstanding heat dissipation and excellent electromagnetic interference shielding performances. Chemical Engineering Journal, 2023, 452, 139665.	6.6	7
1158	Thermal percolation network in alumina based composites. Wuli Xuebao/Acta Physica Sinica, 2023, .	0.2	0
1159	An efficient thermal interface material with anisotropy orientation and high through-plane thermal conductivity. Composites Science and Technology, 2023, 231, 109784.	3.8	21
1160	Facile and scalable preparation of polyvinyl alcohol/hexagonal boron nitride composites via water-assisted mechanochemical and thermal processing. Journal of Polymer Research, 2022, 29, .	1.2	0
1161	Adaptable thermal conductive, high toughness and compliant Poly(dimethylsiloxane) elastomer composites based on interfacial coordination bonds. Composites Science and Technology, 2023, 231, 109840.	3.8	7

#	Article	IF	Citations
1162	Anisotropic PDMS/Alumina/Carbon Fiber Composites with a High Thermal Conductivity and an Electromagnetic Interference Shielding Performance. Materials, 2022, 15, 8078.	1.3	7
1163	Advances in polymers and composite dielectrics for thermal transport and high-temperature applications. Composites Part A: Applied Science and Manufacturing, 2023, 164, 107320.	3.8	21
1164	Radially oriented functional thermal materials prepared by flow field-driven self-assembly strategy. Nano Energy, 2022, 104, 107986.	8.2	9
1165	Coating Fluoropolymer on BaTiO₃ Nanoparticles to Boost Permittivity and Energy Density of Polymer Nanocomposites. Energy Technology, 2023, 11, .	1.8	2
1166	Thermal conductivity of multilayer polymer-nanocomposite thin films. Journal of Applied Physics, 2022, 132, .	1.1	2
1167	Molecular dynamic study on modulating the interfacial thermal conductivity of carbon fiber/epoxy interfaces. Computational Materials Science, 2023, 217, 111914.	1.4	8
1168	High-Temperature Encapsulation Materials for Power Modules: Technology and Future Development Trends. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 1867-1881.	1.4	4
1169	Phase-controllable topochemical polymerization of liquid crystalline epoxy according to spacer length. Polymer Chemistry, 2023, 14, 644-650.	1.9	2
1170	Facile bottom-up synthesis of reduced graphene oxide/aramid nanofiber composite films with high thermal conductivity. Composites Communications, 2023, 37, 101428.	3.3	4
1171	Facile preparation of Cross-linked polyester composite rubber with excellent mechanical strength and high toughness by loading adjustable Low-cost clay. Chemical Engineering Journal, 2023, 455, 140794.	6.6	5
1172	Connecting the dots for fundamental understanding of structureâ€“photophysicsâ€“property relationships of COFs, MOFs, and perovskites using a Multiparticle Holstein Formalism. Chemical Science, 2023, 14, 1040-1064.	3.7	2
1173	Fabrication of thermoplastic polyurethane composites with a high dielectric constant and thermal conductivity using a hybrid filler of CNT@BaTiO3. Materials Today Chemistry, 2023, 27, 101287.	1.7	3
1174	Enhancing the thermal conductivity of amorphous polyimide by molecular-scale manipulation. European Polymer Journal, 2023, 184, 111775.	2.6	5
1175	ZnS nanoparticles-tailored electric, magnetic and mechanical properties of nanocomposites. Physica B: Condensed Matter, 2023, 650, 414572.	1.3	5
1176	Templating strategies for 3D-structured thermally conductive composites: Recent advances and thermal energy applications. Progress in Materials Science, 2023, 133, 101054.	16.0	42
1177	Thermal conductivity of composites of polymers and 0D/1D/2D materials. , 2022, , .		0
1178	Modeling of Percolation Behavior of Thermal Conductivity in Polymer Nanocomposites Containing Carbon Nanotubes. Modelling and Simulation in Engineering, 2022, 44, 25-35.	0.0	0
1179	Influence of Processing Parameters on the Mechanical Properties of Peek Plates by Hot Compression Molding. Materials, 2023, 16, 36.	1.3	6

#	Article	IF	Citations
1180	Response-Surface-Methodology-Based Increasing of the Isotropic Thermal Conductivity of Polyethylene Composites Containing Multiple Fillers. Polymers, 2023, 15, 39.	2.0	1
1181	Selective distribution of BaTiO3 and graphene in PS/PVDF blends: Molecular dynamics simulations. Materials Today Communications, 2023, 34, 105247.	0.9	2
1182	Preheating of dental composite resins: A scoping review. Journal of Esthetic and Restorative Dentistry, 2023, 35, 646-656.	1.8	6
1183	Durable, Low-Cost, and Efficient Heat Spreader Design from Scrap Aramid Fibers and Hexagonal Boron Nitride. Symmetry, 2022, 14, 2597.	1.1	0
1184	Design of Highly Thermally Conductive Hexagonal Boron Nitride-Reinforced PEEK Composites with Tailored Heat Conduction Through-Plane and Rheological Behaviors by a Scalable Extrusion. ACS Applied Polymer Materials, 2023, 5, 329-341.	2.0	13
1185	Enhanced out-of-plane thermal conductivity of polyimide composite films by adding hollow cube-like boron nitride. Ceramics International, 2023, 49, 12615-12624.	2.3	6
1186	Graphene wrapped hollow glass beads for polymer composites: From thermal insulators to conductors. Composites Science and Technology, 2023, 233, 109890.	3.8	3
1187	Investigation on thermal conduction of graphite film enhanced carbon fiber polymer composite by laser flash analysis. Journal of Composite Materials, 0, , 002199832211497.	1.2	0
1188	Thermal percolation network in alumina based thermal conductive polymer. Wuli Xuebao/Acta Physica Sinica, 2023, 72, 024401.	0.2	0
1189	Polymer and Composite Materials in Two-Phase Passive Thermal Management Systems: A Review. Materials, 2023, 16, 893.	1.3	3
1190	Enhanced thermal conductivity of polyarylene ether nitrile composites blending hexagonal boron nitride. Journal of Applied Polymer Science, 2023, 140, .	1.3	4
1191	Experimental investigations on thermo-stamping of carbon fiber reinforced polyamide 6 hat-shaped components with self-resistance electrical heating: Influence on microscopic and macroscopic properties from temperature related processing parameters. Journal of Manufacturing Processes, 2023, 85, 1133-1143.	2.8	1
1192	Fundamentals of Thermal Conductivity in the Epoxy Polymer Network. Engineering Materials, 2023, , 277-293.	0.3	1
1193	A bioâ€based compatibilizer for improved interfacial compatibility in thermally conductive and electrically insulating graphite/high density poly(ethylene) composites. Journal of Vinyl and Additive Technology, 2023, 29, 991-1001.	1.8	6
1194	Biodegradable and reprocessable cellulose-based polyurethane films for bonding and heat dissipation in transparent electronic devices. Industrial Crops and Products, 2023, 193, 116247.	2.5	6
1195	Preparation of branched Al2O3 and its synergistic effect with carbon nanotubes on the enhancement of thermal conductive and electrical insulation properties of silicone rubber composites. Materials Today Communications, 2023, 34, 105239.	0.9	3
1196	Tailoring asymmetric filler arrangement by hollow glass microspheres towards polymer composites with improved through-plane thermal conductivity. Composites Science and Technology, 2023, 233, 109904.	3.8	4
1197	Horizontally aligned graphene/silver heterostructure for anisotropically highly thermoconductive polymer-based composites by stress-induced assembly. Applied Surface Science, 2023, 615, 156404.	3.1	9

#	Article	IF	Citations
1198	Planar defects-induced low thermal conductivity in a superhard material SiB6. Journal of Alloys and Compounds, 2023, 939, 168744.	2.8	0
1199	Enhanced Thermal Conductivity of Epoxy Composites by Introducing 1D AlN Whiskers and Constructing Directionally Aligned 3D AlN Filler Skeletons. ACS Applied Materials & Interfaces, 2023, 15, 2124-2133.	4.0	23
1200	Intrinsically thermally conductive polymers. , 2023, , 79-110.		0
1201	Liquid crystal epoxy composites based on functionalized boron nitride: Synthesis and thermal properties. Polymer Engineering and Science, 2023, 63, 932-942.	1.5	5
1203	Thermally conductive fillers. , 2023, , 111-147.		0
1204	Polysilsesquioxane-Containing Thermally Degradable Groups for Potential Application as Thermal Insulation Materials. ACS Applied Polymer Materials, 2023, 5, 1390-1397.	2.0	3
1205	Fused deposition modeling of polymer-matrix composites with discrete ceramic fillers. , 2023, , 129-175.		0
1206	From <scp>twoâ€dimensional</scp> materials to polymer nanocomposites with emerging multifunctional applications: A critical review. Polymer Composites, 2023, 44, 1438-1470.	2.3	14
1207	Fused deposition modeling of composite materials at a glance â€“ supplementary tables. , 2023, , 329-445.		1
1208	Thermally Conductive, Superhydrophobic, and Flexible Composite Membrane of Polyurethane and Boron Nitride Nanosheets by Ultrasonic Assembly for Thermal Management. ACS Applied Polymer Materials, 2023, 5, 1264-1275.	2.0	2
1209	Tough polyimide composites synergistically reinforced by carbon nanofiber-grafted carbon fiber and rGO for improved heat dissipation and electromagnetic interference shielding. Journal of Materials Science and Technology, 2023, 149, 225-236.	5.6	12
1210	Engineering properties of Teflon derived blends and composites: a review. Polymer-Plastics Technology and Materials, 2022, 61, 1973-1987.	0.6	3
1211	Enhanced electrically and thermally conductive free-standing graphene films with two-dimensional copper sheets as the catalyst and bridge. Dalton Transactions, 2023, 52, 5486-5495.	1.6	3
1212	Nerveâ€Fiberâ€Inspired Construction of 3D Graphene â€œTracksâ€•Supported by Wood Fibers for Multifunctional Biocomposite with Metalâ€Level Thermal Conductivity. Advanced Functional Materials, 2023, 33, .	7.8	17
1213	Research advances in preparation, mechanism and application of thermally conductive and electrically insulating polymer composites in thermal management materials: A review. High Performance Polymers, 0, , 095400832311643.	0.8	0
1214	Development of high performance granite fine fly dust particle reinforced epoxy composites: structure, thermal, mechanical, surface and high voltage breakdown strength properties. Journal of Materials Research and Technology, 2023, 24, 2795-2811.	2.6	4
1215	Al2O3 decorated with polyhedral silsesquioxane units: An unconventional filler system for upgrading thermal conductivity and mechanical properties of rubber composites. Composites Science and Technology, 2023, 236, 109977.	3.8	7
1216	A novel phase change composite with ultrahigh through-plane thermal conductivity and adjustable flexibility. Chemical Engineering Journal, 2023, 463, 142402.	6.6	9

#	Article	IF	Citations
1217	Insights into synergy-induced multifunctional property enhancement mechanisms in hybrid graphene nanoplatelet reinforced polymer composites. Chemical Engineering Journal, 2023, 463, 142406.	6.6	3
1218	Thermally conductive composites based on hexagonal boron nitride nanosheets for thermal management: Fundamentals to applications. Composites Part A: Applied Science and Manufacturing, 2023, 169, 107533.	3.8	22
1219	Construction of functionalized graphene nanoplatelets/SiC nanowires hybrid skeleton for epoxy composites with enhanced thermal conductivity and thermomechanical properties. Materials Research Bulletin, 2023, 162, 112189.	2.7	2
1220	Novel multifunctional melamine borate - boron nitride nanosheets/epoxy composites with enhanced thermal conductivity, flame retardancy and satisfying electrical insulation. Composites Part A: Applied Science and Manufacturing, 2023, 169, 107495.	3.8	19
1221	No temperature dependence of thermal conductivity of high impact polystyrene/Cu alloy composites: Effective medium theory study. Journal of Alloys and Compounds, 2023, 947, 169519.	2.8	5
1222	Constructing a parallel aligned shish kebab structure of HDPE/BN composites: Toward improved two-way thermal conductivity and tensile strength. Composites Part B: Engineering, 2023, 259, 110699.	5.9	10
1223	Eicosane-based thermo-conductive phase change composite for efficient capture solar energy and using in real-environment as power source. Chemical Engineering Journal, 2023, 462, 142273.	6.6	6
1224	Tunable nonlinear conductive behavior without percolation threshold and high thermal conductivity of epoxy resin/SiC ceramic foam co-continuous phase composites. Composites Science and Technology, 2023, 236, 109984.	3.8	4
1225	Achieving air-stable n-type single-walled carbon nanotubes with high thermoelectric performance by doping with polyethylene glycol and N,N-dimethylferrocenemethylamine. Composites Science and Technology, 2023, 238, 110043.	3.8	2
1226	Polydopamine-assisted silver-coated spherical boron nitride as dual functional filler for thermal management and electromagnetic interference shielding. Diamond and Related Materials, 2023, 135, 109856.	1.8	3
1227	Bioinspired, anisotropically highly thermoconductive silicon carbide/epoxy composite based on a nacre-mimetic architecture. Composites Part A: Applied Science and Manufacturing, 2023, 170, 107538.	3.8	2
1228	Thermal conductive nylon 6 composites with hybrid fillers prepared through reaction during extrusion. Composites Science and Technology, 2023, 234, 109931.	3.8	3
1229	Electromagnetic interference shielding and ohmic heating applications of carbonized nonwoven fabrics prepared from blended fibrous wastes. Diamond and Related Materials, 2023, 133, 109708.	1.8	2
1230	From Waste to Wealth: Upcycling Waste Polypropylene/Polyethylene for Thermal Management via Pressure-Induced, Flow-Enhanced Segregated Structurizing with Hexagonal Boron Nitride. Industrial & Engineering Chemistry Research, 2023, 62, 2710-2718.	1.8	1
1231	Synthesis, Thermal Adsorption, and Energy Storage Calibration of Polysulfone Nanocomposite Developed with GNP/CNT Nanofillers. Adsorption Science and Technology, 2023, 2023, .	1.5	1
1232	Improved Electrical and Thermal Conductivities of Grapheneâ€“Carbon Nanotube Composite Film as an Advanced Thermal Interface Material. Energies, 2023, 16, 1378.	1.6	6
1233	A review on the thermal conductivity properties of polymer/ nanodiamond nanocomposites. Polymer-Plastics Technology and Materials, 2023, 62, 486-509.	0.6	0
1234	Synthesis and Properties of a Novel Thermally Conductive Pressureâ€Sensitive Adhesive with UVâ€Responsive Peelability. Macromolecular Rapid Communications, 2023, 44, .	2.0	1

#	Article	IF	Citations
1235	Role of polypyrrole-based SrOâ€“CuO nanocomposite on flame retardancy and heat dissipation applications. Chemical Papers, 2023, 77, 3413-3426.	1.0	1
1236	Based on mussel-inspired modified BN fillers and their application in thermally conductive silica rubber. Diamond and Related Materials, 2023, 134, 109777.	1.8	3
1237	A Bioinspired Polymerâ€Based Composite Displaying Both Strong Adhesion and Anisotropic Thermal Conductivity. Advanced Functional Materials, 2023, 33, .	7.8	26
1238	Thermal stable polymer-based solid electrolytes: Design strategies and corresponding stable mechanisms for solid-state Li metal batteries. Sustainable Materials and Technologies, 2023, 36, e00587.	1.7	2
1239	Dynamic Covalent Bonds in Vitrimers Enable 1.0 W/(m K) Intrinsic Thermal Conductivity. Macromolecules, 2023, 56, 1554-1561.	2.2	4
1240	Dual 3D networks of graphene derivatives based polydimethylsiloxane composites for electrical insulating electronic packaging materials with outstanding electromagnetic interference shielding and thermal dissipation performances. Chemical Engineering Journal, 2023, 462, 142017.	6.6	19
1241	A Malleable Composite Dough with Well-Dispersed and High-Content Boron Nitride Nanosheets. ACS Nano, 2023, 17, 4886-4895.	7.3	17
1242	Structural Spectrum of 2D Materials in Solution: Toward Establishing 2D Assembliesâ€™ Digital Factory. Advanced Materials Interfaces, 2023, 10, .	1.9	0
1243	FUNCTIONAL FILLERS SPECIAL PHYSICAL PROPERTIES. , 2023, , 67-87.		0
1244	AKILLI MALZEME OLARAK POLÄ°MERLER VE UYGULAMALARI. Konya Journal of Engineering Sciences, 0, , 274-299.	0.1	0
1245	Investigation on the electrical and magnetic properties of PVDF/SrFe12O19 composite membranes. Journal of Magnetism and Magnetic Materials, 2023, 572, 170601.	1.0	0
1246	Thermal and Electrical Properties of Additively Manufactured Polymerâ€“Boron Nitride Composite. Polymers, 2023, 15, 1214.	2.0	3
1247	Synthesis of KH550-Modified Hexagonal Boron Nitride Nanofillers for Improving Thermal Conductivity of Epoxy Nanocomposites. Polymers, 2023, 15, 1415.	2.0	1
1248	Thermal Conductivity and Mechanical Properties of Polymer Composites with Hexagonal Boron Nitrideâ€”A Comparison of Three Processing Methods: Injection Moulding, Powder Bed Fusion and Casting. Polymers, 2023, 15, 1552.	2.0	4
1249	Mechanical and Thermal Characterization of Phase-Change Material and High-Density Polyethylene Functional Composites for Thermal Energy Storage. Journal of Solar Energy Engineering, Transactions of the ASME, 2023, 145, .	1.1	3
1250	Thermal Synergistic Effect on CFRP Laminates with Modified Fiber/Matrix Systems for Heat Transfer Applications. Macromolecular Chemistry and Physics, 2023, 224, .	1.1	2
1251	Nondestructive Testing of 3D Printed Fiber-Reinforced Polymeric Composites: An Experimental Critical Comparison. 3D Printing and Additive Manufacturing, 0, , .	1.4	3
1252	Robust polyamide 66 composites with hybrid fillers for thermal management and electromagnetic shielding. Polymer Composites, 2023, 44, 3126-3138.	2.3	5

#	Article	IF	Citations
1253	Fabricating Well-Dispersed Poly(Vinylidene Fluoride)/Expanded Graphite Composites with High Thermal Conductivity by Melt Mixing with Maleic Anhydride Directly. Polymers, 2023, 15, 1747.	2.0	2
1254	Optimization of Flexible Nacre-Like Cellulose Nanofiber Films by a Covalent Overlapping Method: Excellent Thermal Conductivity and Superior Flame Resistance. Industrial & Engineering Chemistry Research, 2023, 62, 5877-5888.	1.8	4
1255	One-flow multi-step synthesis of a monomer as a precursor of thermal-conductive semiconductor packaging polymer via multi-phasic separation. Journal of Industrial and Engineering Chemistry, 2023, 123, 41-50.	2.9	0
1256	Structural Design and Research Progress of Thermally Conductive Polyimide Film â€“ A Review. Macromolecular Rapid Communications, 2023, 44, .	2.0	3
1257	Preparation and Application of Flexible Ethylene Vinyl Acetate Adhesive Composites by Ultrasonicâ€Assisted Forced Infiltration. Advanced Engineering Materials, 2023, 25, .	1.6	0
1258	Thermal conduction network constructed by boron nitride coreâ€“shell structure with loading on silver particles. Polymer Composites, 0, , .	2.3	0
1259	Enhancing the thermal conductivity in electrocaloric polymers by structural orientation for collaborative thermal management. Applied Physics Letters, 2023, 122, 143904.	1.5	2
1260	Hydroxy silicone oil modified boron nitride for high thermal conductivity and low dielectric loss silicone rubber composites: experimental and molecular simulation studies. RSC Advances, 2023, 13, 11182-11191.	1.7	2
1261	Hexagonal boron nitride-loaded macroporous foams as frameworks for development of n-eicosane-based composite phase-change materials. Journal of Thermal Analysis and Calorimetry, 2023, 148, 5943-5956.	2.0	1
1262	Improved Thermal Conductivity and Thermomechanical Properties of Epoxy Nanocomposites with Branched Polyethyleneimineâ€Functionalized Hexagonal Boron Nitride Nanosheets. ChemistrySelect, 2023, 8, .	0.7	0
1263	Enhanced Magnetic Properties and Thermal Conductivity of FeSiCr Soft Magnetic Composite with Al2O3 Insulation Layer Prepared by Sol-Gel Process. Metals, 2023, 13, 813.	1.0	3
1264	Exploiting Enzyme in the Polymer Synthesis for a Remarkable Increase in Thermal Conductivity. International Journal of Molecular Sciences, 2023, 24, 7606.	1.8	0
1279	PolymerverbundwÃrmetauscher. , 2023, , 55-121.		0
1285	Thermally Conductive Hexagonal Boron Nitride-Polyethylene Nanocomposites: Effect of Processing Method and Filler Size, Exfoliation, and Alignment on Thermal Conductivity. Composites Science and Technology, 2023, , 73-91.	0.4	0
1295	A Comparison of the Thermal Conductivity of 3D Printed ABS and ABS/Graphite at Various Infill Patterns and Densities. Lecture Notes in Mechanical Engineering, 2023, , 429-435.	0.3	0
1296	Physicochemical and Mechanical Properties. ACS Symposium Series, 0, , 51-70.	0.5	1
1307	Investigates the effect of MgO, h-BN, and hybrid nano fillers on the thermal, electrical properties and hardness of an epoxy polymer. AIP Conference Proceedings, 2023, , .	0.3	0
1350	Electrical conductivity of PEEK/carbon fiber composites modified by metal and carbon microfillers. AIP Conference Proceedings, 2023, , .	0.3	0

#	Article	IF	Citations
1368	ThermalRouter: Enabling Users to Design Thermally-Sound Devices. , 2023, , .		0
1387	Modeling approaches for bio-based composites. , 2023, , .		0
1430	3D Printable BN/PEEK/PEI Polymer Blend Composites for Thermal Management Applications. , 2024, , .		0
1434	Optical, morphological, and thermal properties of polymer nanocomposite films and coatings. , 2024, , 71-101.		0
1440	Thermally Conductive Polymer Composites with Hexagonal Boron Nitride for Medical Device Thermal Management. , 2023, , .		0
1455	Theoretical and Experimental Characterization of Heat Transfer in Polymers and Elastomers: A Review. Advances in Polymer Science, 2024, , .	0.4	0