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Graphene-multilayer graphene nanocomposites as highly efficient thermal interface materials

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1143	Covalent functionalization of graphene with poly(methyl methacrylate) by atom transfer radical polymerization at room temperature. 2012 , 3, 2768		46
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1139	. 2012 ,		
1138	Role of Interface on the Thermal Conductivity of Highly Filled Dielectric Epoxy/AlN Composites. 2012 , 116, 13629-13639		333
1137	Thermal transport in graphene. 2012 , 152, 1321-1330		142
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1135	Graphene: an emerging electronic material. 2012 , 24, 5782-825		603
1134	Thermal conductivity of a graphene oxide/carbon nanotube hybrid/epoxy composite. 2012 , 50, 5429-5440		321
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1132	Toward Effective Synergetic Effects from Graphene Nanoplatelets and Carbon Nanotubes on Thermal Conductivity of Ultrahigh Volume Fraction Nanocarbon Epoxy Composites. 2012 , 116, 23812-23820	133
1131	Thermal conductivity of composites with hybrid carbon nanotubes and graphene nanoplatelets. 2012 , 101, 211903	52
1130	Single/few-layer boron nitride-based nanocomposites for high thermal conductivity underfills. 2012 ,	7
1129	Thermal transport in three-dimensional foam architectures of few-layer graphene and ultrathin graphite. <i>Nano Letters</i> , 2012 , 12, 2959-64	11.5 285
1128	Thermal properties of the hybrid graphene-metal nano-micro-composites: Applications in thermal interface materials. 2012 , 100, 073113	297
1127	Graphene fillers for ultra-efficient thermal interface materials. 2012 ,	1
1126	Synthesis of network reduced graphene oxide in polystyrene matrix by a two-step reduction method for superior conductivity of the composite. 2012 , 22, 17254	197
1125	POSS vapor grafting on graphene oxide film. 2012 , 537, 84-87	18
1124	Engineering interfaces in carbon nanostructured mats for the creation of energy efficient thermal interface materials. 2013 , 61, 441-457	37
1123	InP/ZnS-graphene oxide and reduced graphene oxide nanocomposites as fascinating materials for potential optoelectronic applications. 2013 , 5, 9793-805	21
1122	Tailored nanostructured titania integrated on titanium micropillars with outstanding wicking properties. 2013 , 13, 2414-8	4
1121	Magnetic alignment of hexagonal boron nitride platelets in polymer matrix: toward high performance anisotropic polymer composites for electronic encapsulation. 2013 , 5, 7633-40	294
1120	Surperhydrophobic polyurethane foam modified by graphene oxide. 2013 , 130, 3530-3536	56
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1117	. 2013 , 101, 1670-1688	25
1116	Effectively decoupling electrical and thermal conductivity of polymer composites. 2013 , 65, 105-111	42
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1114	Role of graphene waviness on the thermal conductivity of graphene composites. 2013 , 111, 221-225	50
1113	Graphene mediated thermal resistance reduction at strongly coupled interfaces. 2013 , 62, 205-213	42
1112	Enhancing the effectiveness of silicone thermal grease by the addition of functionalized carbon nanotubes. 2013 , 283, 525-531	41
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1109	High thermal conductive polyvinyl alcohol composites with hexagonal boron nitride microplatelets as fillers. 2013 , 85, 98-103	200
1108	Numerical Modelling of Microcracking in PV Modules Induced by Thermo-mechanical Loads. 2013 , 38, 506-515	18
1107	Effect of Click-Chemistry Approaches for Graphene Modification on the Electrical, Thermal, and Mechanical Properties of Polyethylene/Graphene Nanocomposites. 2013 , 46, 8980-8987	81
1106	Transport properties of graphite/epoxy composites: Thermal, permeability and dielectric characterization. 2013 , 32, 880-888	57
1105	Tunable electrical and thermal transport in ice-templated multilayer graphene nanocomposites through freezing rate control. 2013 , 7, 11183-9	62
1104	Copper shell networks in polymer composites for efficient thermal conduction. 2013 , 5, 11618-22	76
1103	Interphase effect on the elastic and thermal conductivity response of polymer nanocomposite materials: 3D finite element study. 2013 , 69, 100-106	124
1102	Density controlled conductivity of pristine graphene films. 2013 , 64, 435-443	18
1101	Improvement of the mechanical properties and thermal conductivity of poly(ether-ether-ketone) with the addition of graphene oxide-carbon nanotube hybrid fillers. 2013 , 55, 195-202	64
1100	Thermal conductivity and tensile response of defective graphene: A molecular dynamics study. 2013 , 63, 460-470	186
1099	The facile synthesis of graphene nanoplatelet lead styphnate composites and their depressed electrostatic hazards. 2013 , 1, 12710	39
1098	Rough contact is not always bad for interfacial energy coupling. 2013 , 5, 11598-603	58
1097	Enhanced thermal conductivity in epoxy nanocomposites with hybrid boron nitride nanotubes and nanosheets. 2013 , 210, 2699-2705	31

1096	The transformation of a gold film on few-layer graphene to produce either hexagonal or triangular nanoparticles during annealing. 2013 , 52, 379-387	30
1095	Polyhedral Oligosilsesquioxane-Modified Boron Nitride Nanotube Based Epoxy Nanocomposites: An Ideal Dielectric Material with High Thermal Conductivity. 2013 , 23, 1824-1831	420
1094	Spectrum analysis of the reduction degree of two-step reduced graphene oxide (GO) and the polymer/r-GO composites. 2013 , 143, 240-246	13
1093	Significantly reduced thermal diffusivity of free-standing two-layer graphene in graphene foam. 2013 , 24, 415706	44
1092	Nanoscale assembly into extended and continuous structures and hybrid materials. 2013 , 5, e43-e43	18
1091	Alumina-coated graphene sheet hybrids for electrically insulating polymer composites with high thermal conductivity. 2013 , 3, 17373	155
1090	Enhanced thermal conductivity of epoxy-graphene composites by using non-oxidized graphene flakes with non-covalent functionalization. 2013 , 25, 732-7	527
1089	Nanowire-filled polymer composites with ultrahigh thermal conductivity. 2013 , 102, 093117	64
1088	Tuning the structure of graphene oxide and the properties of poly(vinyl alcohol)/graphene oxide nanocomposites by ultrasonication. 2013 , 1, 3163	44
1087	A large increase in the thermal conductivity of carbon nanotube/polymer composites produced by percolation phenomena. 2013 , 55, 285-290	71
1086	Improved heat dissipation in gallium nitride light-emitting diodes with embedded graphene oxide pattern. 2013 , 4, 1452	140
1085	Experimental and multiscale modeling of thermal conductivity and elastic properties of PLA/expanded graphite polymer nanocomposites. 2013 , 552, 106-113	63
1084	Controlled functionalization of graphene oxide through surface modification with acetone. 2013 , 48, 3436-3442	18
1083	Influence of the addition of graphene-like materials on the thermophysical properties of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) thin film nanocomposites. 2013 , 534, 520-528	9
1082	How a bio-based epoxy monomer enhanced the properties of diglycidyl ether of bisphenol A (DGEBA)/graphene composites. 2013 , 1, 5081	98
1081	Graphene-based electrodes for electrochemical energy storage. 2013 , 6, 1388	631
1080	Superior thermal conductivity of polymer nanocomposites by using graphene and boron nitride as fillers. 2013 , 163, 41-45	55
1079	Anisotropic Thermal and Electrical Properties of Thin Thermal Interface Layers of Graphite Nanoplatelet-Based Composites. 2013 , 3,	116

1078	Carbon hybrid fillers composed of carbon nanotubes directly grown on graphene nanoplatelets for effective thermal conductivity in epoxy composites. 2013 , 24, 155604	45
1077	Increased Thermal Conductivity of Eicosane-Based Composite Phase Change Materials in the Presence of Graphene Nanoplatelets. 2013 , 27, 4041-4047	177
1076	Combined molecular dynamics-finite element multiscale modeling of thermal conduction in graphene epoxy nanocomposites. 2013 , 60, 356-365	115
1075	Anomalous thermal response of silicene to uniaxial stretching. 2013 , 87,	151
1074	Modeling of two-phase random composite materials by finite element, Mori-Tanaka and strong contrast methods. 2013 , 45, 1117-1125	114
1073	Photocatalytic hydrogen generation from water-ethanol mixtures using halogenated reconstituted graphenes. 2013 , 1, 11728	19
1072	Enhancing graphene reinforcing potential in composites by hydrogen passivation induced dispersion. 2013 , 3, 2086	79
1071	Thermal transfer in graphene-interfaced materials: contact resistance and interface engineering. 2013 , 5, 2599-603	36
1070	Thermo-Mechanical Vibration of Double-Orthotropic Nanoplates Surrounded by Elastic Medium. 2013 , 36, 225-238	13
1069	Thermal Contact Conductance of Radiation-Aged Thermal Interface Materials for Space Applications. 2013 ,	1
1068	Thermal Conductivity Measurement of Graphene Composite. 2013 , 1456, 57	3
1067	Transient thermorefectance from graphene composites with matrix of indium and copper. 2013 , 3, 032111	8
1066	Laser irradiation of carbon nanotube films: Effects and heat dissipation probed by Raman spectroscopy. 2013 , 114, 024904	6
1065	Effect of the filler structure of carbon nanomaterials on the electrical, thermal, and rheological properties of epoxy composites. 2013 , 129, 3366-3372	34
1064	Few layer graphene based superlattices as efficient thermal insulators. 2013 , 103, 141905	19
1063	Thermostability, Photoluminescence, and Electrical Properties of Reduced Graphene Oxide/Carbon Nanotube Hybrid Materials. 2013 , 3, 28-37	28
1062	Graphene Thermal Properties: Applications in Thermal Management and Energy Storage. 2014 , 4, 525-547	208
1061	Thermoelectric generators: Linking material properties and systems engineering for waste heat recovery applications. 2014 , 1-2, 26-35	139

1060	Phonon engineering in graphene and van der Waals materials. 2014 , 39, 817-823	20
1059	Use of graphene-based films for hot spot cooling. 2014 ,	3
1058	Hybrid Carbon/Epoxy Composites with Interlocking Properties: The Graphene Nanostructure Morphology Investigation. 2014 ,	
1057	On the kinetic barriers of graphene homo-epitaxy. 2014 , 105, 221607	1
1056	Thermally Conductive and Highly Electrically Resistive Grease Through Homogeneously Dispersing Liquid Metal Droplets Inside Methyl Silicone Oil. 2014 , 136,	54
1055	Electrical and thermal conductivities of reduced graphene oxide/polystyrene composites. 2014 , 104, 113101	91
1054	Molecular Cooling Fan: Factors for Optimization of Heat Dissipation Devices and Applications. 2014 , 53, 19550-19558	14
1053	Role of atomic vacancies and boundary conditions on ballistic thermal transport in graphene nanoribbons. 2014 , 90,	20
1052	Thermal characterization of power devices using graphene-based film. 2014 ,	6
1051	High-performance epoxy/silica coated silver nanowire composites as underfill material for electronic packaging. 2014 , 105, 80-85	104
1050	Few layer graphene paper from electrochemical process for heat conduction. 2014 , 18, 208-213	8
1049	A comparative study of the thermal interface materials with graphene and boron nitride fillers. 2014 ,	5
1048	Thermal, Mechanical and Dielectric Properties of Silicon Carbide/Polyphenylene Sulfide Composites. 2014 , 893, 209-212	2
1047	Graphene-enhanced hybrid phase change materials for thermal management of Li-ion batteries. 2014 , 248, 37-43	305
1046	Thermal conductivity enhancement with different fillers for epoxy resin adhesives. 2014 , 66, 493-498	179
1045	Thermal conduction behaviors of chemically cross-linked high-density polyethylenes. 2014 , 583, 67-71	25
1044	Thermal conductivity behavior of SiCN/Nylon 6,6 and hBN/Nylon 6,6 composites. 2014 , 40, 33-40	13
1043	Graphene Quantum Dots. 2014 , 31, 415-428	616

1042	Exfoliated hexagonal boron nitride-based polymer nanocomposite with enhanced thermal conductivity for electronic encapsulation. 2014 , 90, 123-128	220
1041	Thermal and thermoelectric properties of graphene. 2014 , 10, 2182-99	183
1040	Highly enhanced mechanical properties in Cu matrix composites reinforced with graphene decorated metallic nanoparticles. 2014 , 49, 3725-3731	98
1039	Using polyurethane, ethylene-vinyl acetate hotmelt, and nano hexagonal boron nitride particles to electrospin high surface adhesion polymer fibers. 2014 , 10, 183-189	3
1038	Enhanced thermal/mechanical properties of polymer composites with hybrid boron nitride nanofillers. 2014 , 114, 331-337	48
1037	A coupled cohesive zone model for transient analysis of thermoelastic interface debonding. 2014 , 53, 845-857	29
1036	Size-controlled synthesis of graphite nanoflakes and multi-layer graphene by liquid phase exfoliation of natural graphite. 2014 , 69, 525-535	70
1035	Polyethylene glycol based shape-stabilized phase change material for thermal energy storage with ultra-low content of graphene oxide. 2014 , 123, 171-177	145
1034	Preparation of BiCw/BDM/DBA composites with excellent comprehensive properties. 2014 , 35, 1875-1878	3
1033	Thermal percolation behavior of graphene nanoplatelets/polyphenylene sulfide thermal conductivity composites. 2014 , 35, 1087-1092	93
1032	Graphene nanoplatelets/lead azide composites for the depressed electrostatic hazards. 2014 , 123, 79-82	10
1031	Surface functionalization on the thermal conductivity of graphene/polymer nanocomposites. 2014 , 5, 123-132	37
1030	Hierarchical Graphene/Carbon Fiber Composite Paper as a Flexible Lateral Heat Spreader. 2014 , 24, 4222-4228	145
1029	Heat transport enhancement of thermal energy storage material using graphene/ceramic composites. 2014 , 75, 314-321	61
1028	Enhanced thermal conductivity in polymer composites with aligned graphene nanosheets. 2014 , 49, 5256-5264	122
1027	Ultrathin Flexible Graphene Film: An Excellent Thermal Conducting Material with Efficient EMI Shielding. 2014 , 24, 4542-4548	577
1026	Preparation and properties of silicon nitride/glass fiber/epoxy composites. 2014 , 35, 1338-1342	5
1025	Mechanical, thermal, and dielectric properties of aluminum nitride/glass fiber/epoxy resin composites. 2014 , 35, 381-385	21

1024	Graphene and graphene-based materials for energy storage applications. 2014 , 10, 3480-98	546
1023	Atomistic modeling of mechanical properties of polycrystalline graphene. 2014 , 25, 215704	86
1022	Improved thermal conductivity of graphene encapsulated poly(methyl methacrylate) nanocomposite adhesives with low loading amount of graphene. 2014 , 94, 147-154	10
1021	Thermal Management for LED Applications. 2014 ,	65
1020	Production of monolayer, trilayer, and multi-layer graphene sheets by a re-expansion and exfoliation method. 2014 , 49, 2315-2323	14
1019	Exceptional thermal interface properties of a three-dimensional graphene foam. 2014 , 66, 201-209	80
1018	Graphene based silicone thermal greases. 2014 , 378, 207-211	58
1017	Plasma-assisted electrochemical exfoliation of graphite for rapid production of graphene sheets. 2014 , 4, 6946	40
1016	Transport and thermoelectric properties of polyaniline/reduced graphene oxide nanocomposites. 2014 , 25, 475705	29
1015	Development and characterization of graphene-enhanced thermal conductive adhesives. 2014 ,	3
1014	Thermally reduced graphene oxide films as flexible lateral heat spreaders. 2014 , 2, 16563-16568	198
1013	Designer stabilizer for preparation of pristine graphene/polysiloxane films and networks. 2014 , 6, 11722-31	13
1012	Graphene-enhanced phase change materials for thermal management of battery packs. 2014 ,	1
1011	Fabrication and tensile properties of graphene/copper composites prepared by electroless plating for structural applications. 2014 , 211, 2878-2885	58
1010	A review of LED technology trends and relevant thermal management strategies. 2014 ,	5
1009	Thermal conductivities, mechanical and thermal properties of graphite nanoplatelets/polyphenylene sulfide composites. 2014 , 4, 22101-22105	84
1008	Self-constructed tree-shape high thermal conductivity nanosilver networks in epoxy. 2014 , 6, 4292-6	30
1007	Thermal conductivity of twisted bilayer graphene. 2014 , 6, 13402-8	99

1006	Advanced phase change composite by thermally annealed defect-free graphene for thermal energy storage. 2014 , 6, 15262-71	95
1005	Preparation and properties of multi-walled carbon nanotubes/carbon fiber/epoxy composites. 2014 , 35, 2150-2153	7
1004	RTA-treated carbon fiber/copper core/shell hybrid for thermally conductive composites. 2014 , 6, 7498-503	42
1003	Ultrahigh Thermal Conductivity of Assembled Aligned Multilayer Graphene/Epoxy Composite. 2014 , 26, 4459-4465	250
1002	Characterizing phonon thermal conduction in polycrystalline graphene. 2014 , 29, 362-372	37
1001	Elastomeric thermal interface materials with high through-plane thermal conductivity from carbon fiber fillers vertically aligned by electrostatic flocking. 2014 , 26, 5857-62	135
1000	Effect of graphene layer thickness and mechanical compliance on interfacial heat flow and thermal conduction in solid-liquid phase change materials. 2014 , 6, 12868-76	48
999	Thermal conductivity enhancement of epoxy adhesive using graphene sheets as additives. 2014 , 86, 276-283	111
998	Amorphous silica-coated graphite particles for thermally conductive and electrically insulating resins. 2014 , 78, 204-211	33
997	Thermal conductivity of graphene laminate. <i>Nano Letters</i> , 2014 , 14, 5155-61	11.5 219
996	Configurable three-dimensional boron nitride-carbon architecture and its tunable electronic behavior with stable thermal performances. 2014 , 10, 2992-9	43
995	Challenges and opportunities in graphene commercialization. 2014 , 9, 730-4	260
994	Highly enhanced adsorption of congo red onto graphene oxide/chitosan fibers by wet-chemical etching off silica nanoparticles. 2014 , 245, 99-106	215
993	Toward lithium ion batteries with enhanced thermal conductivity. 2014 , 8, 7202-7	43
992	Rapid Functionalization of Graphene Oxide in Water. 2014 , 26, 5806-5811	55
991	Thermoelectric properties of unoxidized graphene/Bi ₂ Te _{2.7} Se _{0.3} composites synthesized by exfoliation/re-assembly method. 2014 , 8, 357-361	9
990	Specific heat of twisted bilayer graphene: Engineering phonons by atomic plane rotations. 2014 , 105, 031904	58
989	Flexible polyimide films hybrid with functionalized boron nitride and graphene oxide simultaneously to improve thermal conduction and dimensional stability. 2014 , 6, 8639-45	146

988	Effect of Graphene Nanoplatelets addition on mechanical properties of pure aluminum using a semi-powder method. 2014 , 24, 101-108	285
987	Duality of the interfacial thermal conductance in graphene-based nanocomposites. 2014 , 75, 169-177	58
986	Surface iodination: A simple and efficient protocol to improve the isotropically thermal conductivity of silver-epoxy pastes. 2014 , 99, 109-116	24
985	Nanoplatelet size to control the alignment and thermal conductivity in copper-graphite composites. <i>Nano Letters</i> , 2014 , 14, 3640-4	11.5 94
984	Thermal Conduction Across Graphene Cross-Linkers. 2014 , 118, 12541-12547	41
983	Highly thermal conductive copper nanowire composites with ultralow loading: toward applications as thermal interface materials. 2014 , 6, 6481-6	184
982	Influence on thermal conductivity of polyamide-6 covalently-grafted graphene nanocomposites: varied grafting-structures by controllable macromolecular length. 2014 , 4, 18782	40
981	Effects of heat treatment on the thermal properties of highly nanoporous graphene aerogels using the infrared microscopy technique. 2014 , 76, 122-127	45
980	Fabrication of three-dimensional graphene foam with high electrical conductivity and large adsorption capability. 2014 , 311, 808-815	62
979	Chemical sensors based on polymer composites with carbon nanotubes and graphene: the role of the polymer. 2014 , 2, 14289-14328	169
978	Emerging challenges and materials for thermal management of electronics. 2014 , 17, 163-174	897
977	Thermal transport in monolayer graphene oxide: Atomistic insights into phonon engineering through surface chemistry. 2014 , 77, 351-359	55
976	Characterization of Gamma-irradiated Carbon Nanotube and Metallic Foil Thermal Interface Materials for Space Systems. 2014 , 5, 81-94	
975	Performance of low melt alloys as thermal interface materials. 2015 ,	5
974	Cure reaction of epoxy resins catalyzed by graphite-based nanofiller. 2015 ,	1
973	Enhanced Reduction of Graphene Oxide on Recyclable Cu Foils to Fabricate Graphene Films with Superior Thermal Conductivity. 2015 , 5, 14260	26
972	Tuning interfacial thermal conductance of graphene embedded in soft materials by vacancy defects. 2015 , 142, 244703	42
971	Heat transfer at nanoscale contacts investigated with scanning thermal microscopy. 2015 , 107, 043105	23

970	Water Vapor Sensing by Carbon Nanoparticle Skin	2015, 2, 1500244	6
969	Covalently Bonded Graphene/Carbon Nanotube Hybrid for High-Performance Thermal Interfaces.	2015, 25, 7539-7545	84
968	Multifold Increases in Thermal Conductivity of Polymer Nanocomposites through Microwave Welding of Metal Nanowire Fillers.	2015, 2, 1500186	24
967	Preparation and Characterization of EG-Chitosan Nanocomposites via Direct Exfoliation: A Green Methodology.	2015, 7, 2584-2594	13
966	A Coupled Ordinates Method for Convergence Acceleration of the Phonon Boltzmann Transport Equation.	2015, 137,	9
965	Enhanced interfacial thermal transport across graphene/polymer interfaces by grafting polymer chains.	2015, 85, 414-421	103
964	Effect of Covalent Functionalization on Thermal Transport across Graphene/Polymer Interfaces.	2015, 119, 12731-12738	92
963	Graphene dispersion in hydrocarbon medium and its application in lubricant technology.	2015, 5, 53326-53332	31
962	Reduced junction temperature and enhanced performance of high power light-emitting diodes using reduced graphene oxide pattern.	2015, 48, 265102	6
961	Enhanced thermal conductivity of epoxy/three-dimensional carbon hybrid filler composites for effective heat dissipation.	2015, 5, 46989-46996	28
960	Graphite/graphene hybrid filler system for high thermal conductivity of epoxy composites.	2015, 30, 959-966	36
959	Metal particle filled, thermally conductive polymer composites for electronic packaging applications.	2015,	3
958	High-Performance Thermal Interface Material Based on Few-Layer Graphene Composite.	2015, 119, 26753-26759	44
957	Dimensionality effects of carbon-based thermal additives for microporous adsorbents.	2015, 85, 520-526	17
956	Electromechanical characterization of flexible and highly conducting multilayer graphene/polydimethylsiloxane composite paper.	2015,	
955	Novel electrical conduction properties obtained in few-layer graphene/epoxy nanocomposites.	2015,	2
954	Heat transfer mechanisms quantified at submicron scales in scanning thermal microscopy.	2015,	0
953	Aqueous based synthesis of antimicrobial-decorated graphene.	2015, 443, 88-96	16

952	Multiscale modeling of heat conduction in graphene laminates. 2015 , 85, 1-7	88
951	Microwave-assisted solvothermal synthesis of sulfur-doped graphene for electrochemical sensing. 2015 , 739, 172-177	30
950	Fabrication and thermo-physical properties of graphite flake/copper composites. 2015 , 49, 3323-3330	15
949	One-step and rapid synthesis of nitrogen and sulfur co-doped graphene for hydrogen peroxide and glucose sensing. 2015 , 742, 8-14	38
948	Exceptionally high thermal conductivity of thermal grease: Synergistic effects of graphene and alumina. 2015 , 91, 76-82	85
947	Boron nitride nanosheets as barrier enhancing fillers in melt processed composites. 2015 , 7, 4443-50	45
946	Application of graphene as filler to improve thermal transport property of epoxy resin for thermal interface materials. 2015 , 85, 420-429	126
945	Graphene coated with alumina and its utilization as a thermal conductivity enhancer for alumina sphere/thermoplastic polyurethane composite. 2015 , 153, 291-300	61
944	First-principles prediction of phononic thermal conductivity of silicene: A comparison with graphene. 2015 , 117, 025102	158
943	In situ assembly in confined spaces of coated particle scaffolds as thermal underfills with extraordinary thermal conductivity. 2015 , 7, 838-44	4
942	Morphological changes on graphene nanoplatelets induced during dispersion into an epoxy resin by different methods. 2015 , 72, 199-205	76
941	Thermal Conductivity of Magnetically Aligned Graphene Polymer Composites with Fe ₃ O ₄ -Decorated Graphene Nanosheets. 2015 , 44, 658-666	32
940	Low dielectric and high thermal conductivity epoxy nanocomposites filled with NH ₂ -POSS/n-BN hybrid fillers. 2015 , 132, n/a-n/a	13
939	Chemical functionalization of graphene to augment stem cell osteogenesis and inhibit biofilm formation on polymer composites for orthopedic applications. 2015 , 7, 3237-52	134
938	Graphene versus MoS ₂ : A short review. 2015 , 10, 287-302	137
937	A review on the flexural mode of graphene: lattice dynamics, thermal conduction, thermal expansion, elasticity and nanomechanical resonance. 2015 , 27, 083001	55
936	In-plane and cross-plane thermal conductivities of molybdenum disulfide. 2015 , 26, 065703	53
935	Microstructure and properties of carbon nanosheet/copper composites processed by particle-assisted shear exfoliation. 2015 , 5, 19321-19328	20

934	Ultrahigh Responsivity in Graphene-ZnO Nanorod Hybrid UV Photodetector. 2015 , 11, 3054-65	136
933	Experimental evidence of very long intrinsic phonon mean free path along the c-axis of graphite. 2015 , 106, 031905	46
932	Study on thermal properties of graphene foam/graphene sheets filled polymer composites. 2015 , 72, 200-206	130
931	Exploration of polythiophene/graphene, poly(methyl methacrylate)/graphene and polythiophene-co- poly(methyl methacrylate)/graphene nanocomposite obtained via in-situ technique. 2015 , 31, 144-157	12
930	Enhanced tensile properties of magnesium composites reinforced with graphene nanoplatelets. 2015 , 630, 36-44	140
929	The influence of layered, spherical, and tubular carbon nanomaterials' concentration on the flame retardancy of polypropylene. 2015 , 36, 1230-1241	51
928	Thermally Conductive Graphene-Polymer Composites: Size, Percolation, and Synergy Effects. 2015 , 27, 2100-2106	397
927	Bioinspired modification of h-BN for high thermal conductive composite films with aligned structure. 2015 , 7, 5701-8	294
926	Thermal transport across graphene/SiC interface: effects of atomic bond and crystallinity of substrate. 2015 , 119, 415-424	46
925	Molecular-dynamics calculation of the thermal conduction in phase change materials of graphene paraffin nanocomposites. 2015 , 91, 45-51	48
924	Unusual Enhancement in Intrinsic Thermal Conductivity of Multilayer Graphene by Tensile Strains. <i>Nano Letters</i> , 2015 , 15, 6121-7	11.5 73
923	Highly thermally conductive POSS-g-SiCp/UHMWPE composites with excellent dielectric properties and thermal stabilities. 2015 , 78, 95-101	93
922	Enhancing the Heat Transfer Efficiency in Graphene-Epoxy Nanocomposites Using a Magnesium Oxide-Graphene Hybrid Structure. 2015 , 7, 14397-403	75
921	<i>Pulicaria glutinosa</i> extract: a toolbox to synthesize highly reduced graphene oxide-silver nanocomposites. 2015 , 16, 1131-42	46
920	High through-plane thermal conduction of graphene nanoflake filled polymer composites melt-processed in an L-shape kinked tube. 2015 , 7, 15256-62	123
919	Engineering of the thermodynamic properties of bilayer graphene by atomic plane rotations: the role of the out-of-plane phonons. 2015 , 7, 12851-9	41
918	Highly efficient reduction of graphene oxide by sub/supercritical water and their application for thermal interface materials. 2015 , 90, 193-198	17
917	Synergistic improvement of thermal conductivity in polymer composites filled with pitch based carbon fiber and graphene nanoplatelets. 2015 , 45, 132-138	74

916	Classical estimates of the effective thermoelastic properties of copper/graphene composites. 2015 , 80, 278-290	30
915	Investigation into the application of low melting temperature alloys as wet thermal interface materials. 2015 , 85, 996-1002	53
914	Improved Thermal Property of a Multilayered Graphite Nanoplatelets Filled Silicone Resin Composite. 2015 , 24, 920-929	11
913	High thermal conductivity graphite nanoplatelet/UHMWPE nanocomposites. 2015 , 5, 36334-36339	174
912	Bimodal sintered silver nanoparticle paste with ultrahigh thermal conductivity and shear strength for high temperature thermal interface material applications. 2015 , 7, 9157-68	83
911	Nanostructured electrical insulating epoxy thermosets with high thermal conductivity, high thermal stability, high glass transition temperatures and excellent dielectric properties. 2015 , 22, 906-915	23
910	Preparation and properties of aligned graphene composites. 2015 , 5, 31670-31676	16
909	Multiscale Modeling Approach for Estimation of Pinhole Defects in Polymer Nanocomposites. 2015 , 10, 1550030	
908	Hierarchical Porous Graphene Carbon-Based Supercapacitors. 2015 , 27, 2107-2113	172
907	Effect of polymer modifier chain length on thermal conductive property of polyamide 6/graphene nanocomposites. 2015 , 73, 232-241	78
906	Development of magnesium-graphene nanoplatelets composite. 2015 , 49, 285-293	96
905	Intercalation of a block co-polymer in kaolinite. 2015 , 450, 361-365	11
904	Highly conductive multilayer-graphene paper as a flexible lightweight electromagnetic shield. 2015 , 89, 260-271	96
903	Scalable graphene coatings for enhanced condensation heat transfer. <i>Nano Letters</i> , 2015 , 15, 2902-9	11.5 173
902	Thermal Conductivity and Phonon Scattering in Severely Bent Carbon Nanotubes and Bi-layer Graphene. 2015 , 2, 3819-3823	4
901	Accelerated aging and thermal cycling of low melting temperature alloys as wet thermal interface materials. 2015 , 55, 2698-2704	15
900	Strongly Anisotropic Thermal Conductivity of Free-Standing Reduced Graphene Oxide Films Annealed at High Temperature. 2015 , 25, 4664-4672	369
899	Vertically and compactly rolled-up reduced graphene oxide film/epoxy composites: a two-stage reduction method for graphene-based thermal interfacial materials. 2015 , 5, 94426-94435	31

898	Carbon microtube/graphene hybrid structures for thermal management applications. 2015 , 3, 18706-18710	16
897	Graphene-Carbon Nanotubes Hybrids for Composite Materials. 2015 ,	1
896	Magnetically-functionalized self-aligning graphene fillers for high-efficiency thermal management applications. 2015 , 88, 214-221	141
895	Graphene-Based Hybrid Composites for Efficient Thermal Management of Electronic Devices. 2015 , 7, 23725-30	121
894	Nucleation and Growth of the HfO ₂ Dielectric Layer for Graphene-Based Devices. 2015 , 27, 5868-5877	37
893	Evidence of interfacial charge trapping mechanism in polyaniline/reduced graphene oxide nanocomposites. 2015 , 107, 053102	21
892	Highly dispersible disk-like graphene nanoflakes. 2015 , 7, 15059-64	8
891	Carbon black/octadecane composites for room temperature electrical and thermal regulation. 2015 , 94, 417-423	17
890	Planar Porous Graphene Woven Fabric/Epoxy Composites with Exceptional Electrical, Mechanical Properties, and Fracture Toughness. 2015 , 7, 21455-64	30
889	Mechanical and photothermal shape memory properties of in-situ polymerized hyperbranched polyurethane composites with functionalized graphene. 2015 , 16, 1766-1771	10
888	Preparation and thermal properties of the graphene/polyolefin adhesive composites: Application in thermal interface materials. 2015 , 55, 2569-2574	21
887	A molecular dynamics study on thermal and mechanical properties of graphene/paraffin nanocomposites. 2015 , 5, 82638-82644	40
886	Multilayer graphene condenser microphone. 2015 , 2, 045013	46
885	Thermal conductivity of graphene nanoplatelets filled composites fabricated by solvent-free processing for the excellent filler dispersion and a theoretical approach for the composites containing the geometrized fillers. 2015 , 69, 219-225	77
884	Effects of covalent functionalization on the thermal transport in carbon nanotube/polymer composites: A multi-scale investigation. 2015 , 56, 563-571	39
883	Electrochemical generation of hydrogenated graphene flakes. 2015 , 83, 128-135	35
882	Self-assembled block copolymer micelles with silver-carbon nanotube hybrid fillers for high performance thermal conduction. 2015 , 7, 1888-95	15
881	Evaluating the thermal damage resistance of graphene/carbon nanotube hybrid composite coatings. 2014 , 4, 4311	25

880	Modeling and analysis of synergistic effect in thermal conductivity enhancement of polymer composites with hybrid filler. 2015 , 81, 457-464	55
879	Advanced multifunctional graphene aerogel/Poly (methyl methacrylate) composites: Experiments and modeling. 2015 , 81, 396-404	106
878	Fatigue degradation and electric recovery in Silicon solar cells embedded in photovoltaic modules. 2014 , 4, 4506	52
877	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. 2015 , 7, 4598-810	2015
876	Improved strength and ductility of magnesium with addition of aluminum and graphene nanoplatelets (Al+GNPs) using semi powder metallurgy method. 2015 , 23, 243-250	99
875	. 2016 ,	16
874	Paraffin Nanocomposites for Heat Management of Lithium-Ion Batteries: A Computational Investigation. 2016 , 2016, 1-10	23
873	Review of Recent Developments on Using an Off-Lattice Monte Carlo Approach to Predict the Effective Thermal Conductivity of Composite Systems with Complex Structures. 2016 , 6,	10
872	. 2016 ,	1
871	P-93: High Performance of Quantum Dot Based Light Emitting Diodes Optimized by Graphene Sheets. 2016 , 47, 1472-1475	1
870	Exceptional Thermal Conductance across Hydrogen-Bonded Graphene/Polymer Interfaces. 2016 , 3, 1600211	23
869	Electronic structures and quantum capacitance of monolayer and multilayer graphenes influenced by Al, B, N and P doping, and monovacancy: Theoretical study. 2016 , 108, 7-20	55
868	Ultrahigh Thermal Conductivity of Interface Materials by Silver-Functionalized Carbon Nanotube Phonon Conduits. 2016 , 28, 7220-7	165
867	Thermal Conductivity of Polymer Composites With Geometric Characteristics of Carbon Allotropes . 2016 , 18, 1127-1132	35
866	Durability of Low Melt Alloys as Thermal Interface Materials. 2016 , 138,	3
865	Reduced graphene oxide wrapped phosphors for long-term thermally stable phosphor converted white light emitting diodes. 2016 , 6, 33993	25
864	Development and characterization of graphene enhanced thermal conductive adhesives. 2016 ,	2
863	High-performance polyimide nanocomposites with core-shell AgNWs@BN for electronic packagings. 2016 , 109, 082901	20

862	On the sign of the relaxation activation energy for interfacial polarization in reduced graphene oxide-based nano-composites. 2016 , 109, 182901	9
861	Flame speed enhancement of a nitrocellulose monopropellant using graphene microstructures. 2016 , 120, 174902	19
860	Thermal conductivity enhancement of laser induced graphene foam upon P3HT infiltration. 2016 , 109, 253107	18
859	Formation and Functionality of Interphase in Polymer Nanocomposites. 2016 , 103-138	
858	Highly thermally conductive polymer nanocomposites based on boron nitride nanosheets decorated with silver nanoparticles. 2016 , 6, 41630-41636	43
857	Recently emerging trends in thermal conductivity of polymer nanocomposites. 2016 , 32,	46
856	High thermal conductivity of flexible polymer composites due to synergistic effect of multilayer graphene flakes and graphene foam. 2016 , 85, 148-155	88
855	Thermal conductivity reduction in analogous 2D nanomaterials with isotope substitution: Graphene and silicene. 2016 , 650, 88-93	11
854	Thermally Conductive-Silicone Composites with Thermally Reversible Cross-links. 2016 , 8, 13669-72	15
853	Synthesis of AlN whiskers using cobalt oxide catalyst and their alignments for the improvement of thermal conductivity. 2016 , 179, 204-213	11
852	Preparation of graphene modified epoxy resin with high thermal conductivity by optimizing the morphology of filler. 2016 , 103, 892-900	47
851	Boron nitride@graphene oxide hybrids for epoxy composites with enhanced thermal conductivity. 2016 , 6, 35847-35854	80
850	Effect of non-covalent functionalisation on thermal and mechanical properties of graphene-polymer nanocomposites. 2016 , 102, 311-318	84
849	Recent Developments in Epoxy/Graphite, Epoxy/Graphene, and Epoxy/Graphene Nanoplatelet Composites: A Comparative Review. 2016 , 55, 1192-1210	33
848	Structure, rheological, thermal conductive and electrical insulating properties of high-performance hybrid epoxy/nanosilica/AgNWs nanocomposites. 2016 , 128, 207-214	75
847	Characterization and toxicological effects of three-dimensional graphene foams in rats in vivo. 2016 , 18, 1	14
846	Multilayer Graphene Enables Higher Efficiency in Improving Thermal Conductivities of Graphene/Epoxy Composites. <i>Nano Letters</i> , 2016 , 16, 3585-93	11.5 233
845	Surface modification of BN/Fe ₃ O ₄ hybrid particle to enhance interfacial affinity for high thermal conductive material. 2016 , 91, 74-80	66

844	Ideal dielectric thermally conductive bismaleimide nanocomposites filled with polyhedral oligomeric silsesquioxane functionalized nanosized boron nitride. 2016 , 6, 35809-35814	130
843	Review of thermal conductivity in composites: Mechanisms, parameters and theory. 2016 , 61, 1-28	621
842	BN-MWCNT/PPS core-shell structured composite for high thermal conductivity with electrical insulating via particle coating. 2016 , 101, 168-175	45
841	Classification of Nanomaterials and Nanocomposites. 2016 , 17-48	0
840	Direct transfer of multilayer graphene grown on a rough metal surface using PDMS adhesion engineering. 2016 , 27, 365705	4
839	Graphene-enhanced thermal interface materials for heat removal from photovoltaic solar cells. 2016 ,	2
838	Fabrication of h-BN nano-sheet composite and evaluation of microcosmic physical interfaces effect on thermal diffusion. 2016 , 6, 97969-97975	3
837	Effect of functional groups on thermal conductivity of graphene/paraffin nanocomposite. 2016 , 380, 3828-3831	30
836	Graphene Oxide-Based Composite Materials. 2016 , 314-363	7
835	Formation of thermally conductive networks in isotactic polypropylene/hexagonal boron nitride composites via Bridge Effect of multi-wall carbon nanotubes and graphene nanoplatelets. 2016 , 6, 98571-98580	22
834	Paving the Thermal Highway with Self-Organized Nanocrystals in Transparent Polymer Composites. 2016 , 8, 29080-29087	31
833	Numerical simulation of thermal conductivity of graphene filled polymer composites. 2016 , 106, 324-331	46
832	Thermal optimization of composite phase change material/expanded graphite for Li-ion battery thermal management. 2016 , 108, 1119-1125	120
831	Study of Transmission, Transport, and Electronic Structure Properties of Periodic and Aperiodic Graphene-Based Structures. 2016 , 471-496	
830	Adsorbent layer for adsorption heat pump prepared with the surface-modified ferroaluminophosphate particles and inorganic silica binder. 2016 , 80, 297-305	3
829	Heat Dissipation Enhancement of 2.5D Package with 3D Graphene and 3D Boron Nitride Networks as Thermal Interface Material (TIM). 2016 ,	2
828	High-performance thermal interface materials consisting of vertically aligned graphene film and polymer. 2016 , 109, 552-557	93
827	Toward highly thermally conductive all-carbon composites: Structure control. 2016 , 109, 575-597	99

826	Synergistic enhancement of thermal conductivity in polymer composites filled with self-hybrid expanded graphite fillers. 2016 , 450, 75-81	20
825	Vertically Aligned and Interconnected Graphene Networks for High Thermal Conductivity of Epoxy Composites with Ultralow Loading. 2016 , 28, 6096-6104	246
824	Double-Wall Nanotubes and Graphene Nanoplatelets for Hybrid Conductive Adhesives with Enhanced Thermal and Electrical Conductivity. 2016 , 8, 23244-59	43
823	Epoxy Resin Catalyzed by Graphite-Based Nanofillers. 2016 , 31, 548-553	1
822	Effect of functionalization on thermal conductivities of graphene/epoxy composites. 2016 , 108, 412-422	135
821	Three-dimensional macro-structures of two-dimensional nanomaterials. 2016 , 45, 5541-5588	231
820	Thermal resistance measurement of 3D graphene foam/polymer composite by laser flash analysis. 2016 , 101, 470-475	34
819	Thermal conductivity of graphene with defects induced by electron beam irradiation. 2016 , 8, 14608-16	144
818	Enhanced thermal conductivity for poly(vinylidene fluoride) composites with nano-carbon fillers. 2016 , 6, 68357-68362	42
817	Reversible Bending Behaviors of Photomechanical Soft Actuators Based on Graphene Nanocomposites. 2016 , 6, 27366	37
816	Robustly Engineering Thermal Conductivity of Bilayer Graphene by Interlayer Bonding. 2016 , 6, 22011	25
815	Air-dried, high-density graphene hybrid aerogels for phase change composites with exceptional thermal conductivity and shape stability. 2016 , 4, 18067-18074	121
814	Silver Nanoparticle-Deposited Boron Nitride Nanosheets as Fillers for Polymeric Composites with High Thermal Conductivity. 2016 , 6, 19394	156
813	Technique for direct measurement of thermal conductivity of elastomers and a detailed uncertainty analysis. 2016 , 27, 115014	5
812	Interfacial Engineering of Silicon Carbide Nanowire/Cellulose Microcrystal Paper toward High Thermal Conductivity. 2016 , 8, 31248-31255	106
811	Effect of reduction temperatures on the thermal and electrical conductivities of reduced graphene oxide films on the Cu foils. 2016 ,	0
810	Improved methodology for calculating interfacial thermal resistance and uncertainty for steady-state TIM testers with embedded probes. 2016 ,	0
809	Thermal Conductivity of Graphene and Its Polymer Nanocomposites: A Review. 2016 , 1-28	3

808	Pressure-dependent heat transfer at multilayer graphene and gas interface. 2016 , 16, 1236-1241	6
807	Massive enhancement in the thermal conductivity of polymer composites by trapping graphene at the interface of a polymer blend. 2016 , 129, 160-165	100
806	Heat and fluid flow in high-power LED packaging and applications. 2016 , 56, 1-32	284
805	Electrical and Electromechanical Properties of Stretchable Multilayer-Graphene/PDMS Composite Foils. 2016 , 15, 687-695	6
804	Modeling Kapitza resistance of two-phase composite material. 2016 , 152, 939-946	41
803	Highly Anisotropic Scaling Limits. 2016 , 162, 997-1030	1
802	Enhanced thermal conductivity and satisfactory flame retardancy of epoxy/alumina composites by combination with graphene nanoplatelets and magnesium hydroxide. 2016 , 98, 134-140	96
801	Highly deformable thermal interface materials enabled by covalently-bonded carbon nanotubes. 2016 , 106, 152-157	36
800	Improved topological conformity enhances heat conduction across metal contacts on transferred graphene. 2016 , 105, 268-274	33
799	Graphene woven fabric-reinforced polyimide films with enhanced and anisotropic thermal conductivity. 2016 , 87, 290-296	81
798	Characterization and simulation of liquid phase exfoliated graphene-based films for heat spreading applications. 2016 , 106, 195-201	26
797	Preparation of tourmaline/graphene oxide and its application in thermal interface materials. 2016 , 50, 3953-3960	7
796	Thermal and Mechanical Properties of Graphene/Titanium Composites Synthesized by Microwave Sintering. 2016 , 29, 707-713	26
795	Synergistic effect of hybrid graphene nanoplatelet and multi-walled carbon nanotube fillers on the thermal conductivity of polymer composites and theoretical modeling of the synergistic effect. 2016 , 88, 79-85	88
794	Highly thermal conductivity silicon nitride/carbon fibres/bismaleimide composites. 2016 , 37, 468-471	5
793	Graphene-philic surfactants for nanocomposites in latex technology. 2016 , 230, 54-69	28
792	Thermal properties of epoxy resin based thermal interfacial materials by filling Ag nanoparticle-decorated graphene nanosheets. 2016 , 125, 17-21	60
791	Liquid Exfoliated Graphene: A Practical Method for Increasing Loading and Producing Thin Films. 2016 , 5, P36-P40	5

790	High thermal conductivity of hexagonal boron nitride laminates. 2016 , 3, 011004	41
789	Non-covalent Functionalization of CNT and Graphene and Its Application to Hybrid Carbon/Epoxy Composites. 2016 ,	1
788	Measurement of High-Performance Thermal Interfaces Using a Reduced Scale Steady-State Tester and Infrared Microscopy. 2016 , 138,	11
787	Anisotropic thermally conductive flexible films based on nanofibrillated cellulose and aligned graphene nanosheets. 2016 , 4, 305-314	144
786	A brief review on graphene/inorganic nanostructure composites: materials for the future. 2016 , 90, 1019-1032	21
785	Thermal conductivity of polymer-based composites: Fundamentals and applications. 2016 , 59, 41-85	988
784	Graphene oxide porous crosslinked cellulose nanocomposite microspheres for lead removal: Kinetic study. 2016 , 101, 9-19	24
783	Thermal performance of low melting temperature alloys at the interface between dissimilar materials. 2016 , 99, 72-79	22
782	A novel approach to enhance the thermal conductivity of epoxy nanocomposites using graphene core-shell additives. 2016 , 101, 239-244	104
781	Significant Enhancement of Thermal Conductivity in Bioinspired Freestanding Boron Nitride Papers Filled with Graphene Oxide. 2016 , 28, 1049-1057	187
780	Ultrahigh electrically and thermally conductive self-aligned graphene/polymer composites using large-area reduced graphene oxides. 2016 , 101, 120-128	165
779	The coordination nanosheet (CONASH). 2016 , 320-321, 118-128	81
778	Graphene oxide as a catalyst for ring opening reactions in amine crosslinking of epoxy resins. 2016 , 6, 23858-23865	41
777	A Highly Efficient and Facile Approach for Fabricating Graphite Nanoplatelets. 2016 , 45, 2522-2528	6
776	Coordination Programming of Two-Dimensional Metal Complex Frameworks. 2016 , 32, 2527-38	66
775	Some Aspects of Thermal Transport across the Interface between Graphene and Epoxy in Nanocomposites. 2016 , 8, 8272-9	71
774	Super-elastic graphene/carbon nanotube aerogel: A novel thermal interface material with highly thermal transport properties. 2016 , 99, 222-228	129
773	Analytic modeling for the anisotropic thermal conductivity of polymer composites containing aligned hexagonal boron nitride. 2016 , 122, 42-49	43

772	Preparation and properties of silicon carbide/glass fibres/bismaleimide composites. 2016 , 48, 97-104	4
771	Correlation between the free volume and thermal conductivity of porous poly(vinyl alcohol)/reduced graphene oxide composites studied by positron spectroscopy. 2016 , 96, 871-878	37
770	Constructing polyurethane sponge modified with silica/graphene oxide nanohybrids as a ternary sorbent. 2016 , 284, 478-486	75
769	Modeling of anisotropic thermal conductivity of polymer composites containing aligned boron nitride platelets: Effect of processing methods. 2017 , 38, 2670-2678	5
768	Synergistic thermal conductivity enhancement of PC/ABS composites containing alumina/magnesia/graphene nanoplatelets. 2017 , 38, 2221-2227	19
767	Visualizing subsurface defects in graphite by acoustic atomic force microscopy. 2017 , 80, 66-74	11
766	Fabrication and molecular dynamics analyses of highly thermal conductive reduced graphene oxide films at ultra-high temperatures. 2017 , 9, 2340-2347	49
765	Thermal and magnetic properties of nanostructured densified ferrimagnetic composites with graphene - graphite fillers. 2017 , 118, 75-80	58
764	Phonons and thermal transport in graphene and graphene-based materials. 2017 , 80, 036502	197
763	Mechanical, electrical and thermal properties of in-situ exfoliated graphene/epoxy nanocomposites. 2017 , 95, 229-236	82
762	Unimer-Assisted Exfoliation for Highly Concentrated Aqueous Dispersion Solutions of Single- and Few-Layered van der Waals Materials. 2017 , 33, 1217-1226	8
761	Thermal Properties of Two Dimensional Layered Materials. 2017 , 27, 1604134	96
760	Effects of Esheet crystals and a glycine-rich matrix on the thermal conductivity of spider dragline silk. 2017 , 96, 384-391	3
759	Thermal Performance Enhancement of Light Emitting Diode Device with Multilayer-Graphene Transferred to the Substrate Surface. 2017 , 6, R35-R39	2
758	Vibrating nonlocal multi-nanoplate system under inplane magnetic field. 2017 , 64, 29-45	29
757	Fabrication and applications of multi-layer graphene stack on transparent polymer. 2017 , 110, 041901	33
756	Polypropylene/poly(methyl methacrylate)/graphene composites with high electrical resistivity anisotropy via sequential biaxial stretching. 2017 , 7, 6170-6178	20
755	High-Density 3D-Boron Nitride and 3D-Graphene for High-Performance Nano-Thermal Interface Material. 2017 , 11, 2033-2044	107

754	Influence of exfoliated graphene nanoplatelets on flame retardancy of kenaf flour polypropylene hybrid nanocomposites. 2017 , 123, 65-72	64
753	Non-covalent poly (2-ethylhexyl acrylate) (P2EHA)/functionalized graphene/h-boron nitride flexible composites with enhanced adhesive and thermal conductivity by a facilitated latex approach. 2017 , 99, 176-185	22
752	Investigation on the Optimized Binary and Ternary Gallium Alloy as Thermal Interface Materials. 2017 , 139,	10
751	Dispersion and network formation of graphene platelets in polystyrene composites and the resultant conductive properties. 2017 , 96, 89-98	41
750	Molecular dynamics simulations of flame propagation along a monopropellant PETN coupled with multi-walled carbon nanotubes. 2017 , 121, 054902	6
749	Solvent evaporation induced self-assembly of graphene foam for thermally conductive polymers. 2017 , 7, 15469-15474	11
748	Relative effect of edge versus basal plane functionalization on graphene/polymer interfacial thermal conductance - Role of in-plane phonons. 2017 , 110, 093112	2
747	Synthesis and characterization of nitrogen-doped graphene nanosheets/copper composite film for thermal dissipation. 2017 , 118, 1-7	53
746	In situ formation of a cellular graphene framework in thermoplastic composites leading to superior thermal conductivity. 2017 , 5, 6164-6169	120
745	Carbon Based Nanomaterials for High Performance Optoelectrochemical Systems. 2017 , 2, 1548-1555	27
744	Surface modified graphene oxide nanosheets by gold ion implantation as a substrate for surface enhanced Raman scattering. 2017 , 703, 500-507	26
743	High thermal conductivity in soft elastomers with elongated liquid metal inclusions. 2017 , 114, 2143-2148	314
742	Interfacial synthesis of electrofunctional coordination nanowires and nanosheets of bis(terpyridine) complexes. 2017 , 346, 139-149	43
741	A Combination of Boron Nitride Nanotubes and Cellulose Nanofibers for the Preparation of a Nanocomposite with High Thermal Conductivity. 2017 , 11, 5167-5178	297
740	Volume control of expanded graphite based on inductively coupled plasma and enhanced thermal conductivity of epoxy composite by formation of the filler network. 2017 , 119, 40-46	51
739	Bulk Expansion Effect of Gallium-Based Thermal Interface Material. 2017 , 38, 1	6
738	An investigation of thermal and tribological behaviors of PTFE-based silicon composites filled with AlN and flake graphite particles. 2017 , 134, 45263	6
737	Thermal transmittance in graphene based networks for polymer matrix composites. 2017 , 117, 98-105	22

736	A Green Plastic Constructed from Cellulose and Functionalized Graphene with High Thermal Conductivity. 2017 , 9, 17914-17922	107
735	High-concentration shear-exfoliated colloidal dispersion of surfactant-polymer-stabilized few-layer graphene sheets. 2017 , 52, 8321-8337	32
734	Fabrication of robust and highly thermally conductive nanofibrillated cellulose/graphite nanoplatelets composite papers. 2017 , 138, 179-185	57
733	Effects of Temperature and Shear on the Adsorption of Surfactants on Carbon Nanotubes. 2017 , 121, 14339-14348	7
732	Density-tunable lightweight polymer composites with dual-functional ability of efficient EMI shielding and heat dissipation. 2017 , 9, 13432-13440	77
731	Capacitance behavior of radio-frequency interdigital capacitor with single- and multi-layer graphenes. 2017 , 110, 223103	2
730	Thermal Properties of Graphene Filled Polymer Composite Thermal Interface Materials. 2017 , 302, 1700068	48
729	Investigation of Thermal Properties of Ni-Coated Graphene Nanoribbons Based on Molecular Dynamics Methods. 2017 , 46, 4733-4739	3
728	Thermal conductivity of functionalized graphene-polymer nanocomposite: A non-equilibrium molecular dynamics study. 2017 ,	
727	Enhancing mechanisms of multi-layer graphenes to cementitious composites. 2017 , 101, 143-150	69
726	Stretchable electronic devices using graphene and its hybrid nanostructures. 2017 , 3, 71-91	26
725	Study of graphene oxide-based 3D printable composites: Effect of the in situ reduction. 2017 , 124, 9-15	73
724	Reactive force field simulation on thermal conductivities of carbon nanotubes and graphene. 2017 , 112, 903-912	26
723	Enhanced thermal conductivity of functionalized-graphene/boron nitride flexible laminated composite adhesive via a facile latex approach. 2017 , 99, 166-175	20
722	Effective micro-spray cooling for light-emitting diode with graphene nanoporous layers. 2017 , 28, 164003	18
721	A facile way to produce epoxy nanocomposites having excellent thermal conductivity with low contents of reduced graphene oxide. 2017 , 52, 7323-7344	54
720	Laser-generated plasmas by graphene nanoplatelets embedded into polyethylene. 2017 , 35, 294-303	3
719	Impact of torsion and stretching on the thermal conductivity of polyethylene strands. 2017 , 110, 101905	17

7 ¹⁸	Thermal conductivity of epoxy composites filled by thermally reduced graphite oxide with different reduction degree. 2017 , 51, 1743-1752	20
7 ¹⁷	On the graphene nanoplatelets reinforcement of hand lay-up glass fabric/epoxy laminated composites. 2017 , 118, 26-32	31
7 ¹⁶	Enhanced thermal conduction and influence of interfacial resistance within flexible high aspect ratio copper nanowire/polymer composites. 2017 , 144, 70-78	47
7 ¹⁵	BN@PPS core-shell structure particles and their 3D segregated architecture composites with high thermal conductivities. 2017 , 144, 63-69	92
7 ¹⁴	Adjustable micro-structure, higher-level mechanical behavior and conductivities of preformed graphene architecture/epoxy composites via RTM route. 2017 , 94, 178-188	16
7 ¹³	An interfering Monte Carlo method for partially coherent phonon transport in superlattices. 2017 , 107, 534-543	7
7 ¹²	Graphene-coated ZnO tetrapod whiskers for thermally and electrically conductive epoxy composites. 2017 , 94, 104-112	38
7 ¹¹	Highly Anisotropic Thermal Conductivity of Layer-by-Layer Assembled Nanofibrillated Cellulose/Graphene Nanosheets Hybrid Films for Thermal Management. 2017 , 9, 2924-2932	208
7 ¹⁰	Roll-to-Roll Continuous Manufacturing Multifunctional Nanocomposites by Electric-Field-Assisted "Z" Direction Alignment of Graphite Flakes in Poly(dimethylsiloxane). 2017 , 9, 919-929	38
7 ⁰⁹	Rational design of a bi-layered reduced graphene oxide film on polystyrene foam for solar-driven interfacial water evaporation. 2017 , 5, 16212-16219	193
7 ⁰⁸	Tailor Made Conductivities of Polymer Matrix for Thermal Management: Design and Development of Three-Dimensional Carbonaceous Nanostructures. 2017 , 56, 672-679	19
7 ⁰⁷	Thermal conductivity of graphene oxide-enhanced polyvinyl alcohol composites depending on molecular interaction. 2017 , 129, 201-206	22
7 ⁰⁶	Recent advances in ternary two-dimensional materials: synthesis, properties and applications. 2017 , 5, 22855-22876	97
7 ⁰⁵	Bis(aminothiolato)nickel nanosheet as a redox switch for conductivity and an electrocatalyst for the hydrogen evolution reaction. 2017 , 8, 8078-8085	90
7 ⁰⁴	High resolution steady-state measurements of thermal contact resistance across thermal interface material junctions. 2017 , 88, 094901	9
7 ⁰³	Annealing and polycrystallinity effects on the thermal conductivity of supported CVD graphene monolayers. 2017 , 9, 15515-15524	7
7 ⁰²	An ultrahigh thermal conductive graphene flexible paper. 2017 , 9, 16871-16878	45
7 ⁰¹	Thermal Conduction Behavior of Graphene and GraphenePolymer Composites. 2017 , 113-134	

700	Improvement of Interface Thermal Resistance for Surface-Mounted Ultraviolet Light-Emitting Diodes Using a Graphene Oxide Silicone Composite. 2017 , 2, 5005-5011	12
699	Enhanced thermal conductivity of graphene nanoplatelets epoxy composites. 2017 , 35, 382-389	31
698	Surface/interface influence on specific heat capacity of solid, shell and core-shell nanoparticles. 2017 , 127, 884-888	18
697	Characterization techniques for graphene. 2017 , 45-74	5
696	Surface modification and magnetic alignment of hexagonal boron nitride nanosheets for highly thermally conductive composites. 2017 , 7, 43380-43389	31
695	Completely Green Approach for the Preparation of Strong and Highly Conductive Graphene Composite Film by Using Nanocellulose as Dispersing Agent and Mechanical Compression. 2017 , 5, 9102-9113	61
694	Negative Gaussian curvature induces significant suppression of thermal conduction in carbon crystals. 2017 , 9, 14208-14214	25
693	Highly stable perovskite solar cells in humid and hot environment. 2017 , 5, 14733-14740	40
692	A novel fluid-filler/polymer composite as high-temperature thermally conductive and electrically insulating material. 2017 , 150, 128-134	16
691	Enhanced thermal conductivity of epoxy/Cu-plated carbon fiber fabric composites. 2017 , 25, 559-564	12
690	Preparation of Boron Nitride Nanosheet/Nanofibrillated Cellulose Nanocomposites with Ultrahigh Thermal Conductivity via Engineering Interfacial Thermal Resistance. 2017 , 4, 1700563	62
689	Measuring Interlayer Shear Stress in Bilayer Graphene. 2017 , 119, 036101	111
688	Effective thermal conductivity of carbon nanostructure based polyethylene nanocomposite: Influence of defected, doped, and hybrid filler. 2017 , 120, 185-189	16
687	Thermally shocked graphene oxide-containing biocomposite for thermal management applications. 2017 , 7, 33751-33756	15
686	Interaction between polymer-coated carbon nanotubes with coarse-grained computations. 2017 , 685, 77-83	2
685	Generalized Two-Temperature Model for Coupled Phonons in Nanosized Graphene. <i>Nano Letters</i> , 2017 , 17, 5805-5810	11.5 46
684	Fabrication and characterization of a carbon fiber solder composite thermal interface material. 2017 ,	4
683	Graphene-based heat spreading materials for electronics packaging applications. 2017 ,	

682	High thermal conductivity through simultaneously aligned polyethylene lamellae and graphene nanoplatelets. 2017 , 9, 12867-12873	38
681	Reliability of low melt alloys as thermal interface materials. 2017 ,	0
680	Comparison of pristine and polyaniline-grafted MWCNTs as conductive sensor elements for phase change materials: Thermal conductivity trend analysis. 2017 , 134, 45389	7
679	Enhanced thermal conductivity of commercial polystyrene filled with core-shell structured BN@PS. 2017 , 102, 218-227	33
678	Thermal Properties of Graphene: From Physics to Applications. 90-103	
677	Interlayer Coupling Behaviors of Boron Doped Multilayer Graphene. 2017 , 121, 26034-26043	20
676	Thermal conductivity analysis and applications of nanocellulose materials. 2017 , 18, 877-892	55
675	RGO/TPU composite with a segregated structure as thermal interface material. 2017 , 101, 108-114	44
674	Effect of temperature and graphite particle fillers on thermal conductivity and viscosity of phase change material n-eicosane. 2017 , 114, 318-323	30
673	Thermal conductivity of 2D nano-structured graphitic materials and their composites with epoxy resins. 2017 , 4, 042001	27
672	Enhanced thermal transport performance for poly(vinylidene fluoride) composites with superfullerene. 2017 , 18, 1180-1186	7
671	General overview of graphene: Production, properties and application in polymer composites. 2017 , 215, 9-28	210
670	Challenge and Opportunities of Carbon Nanotubes. 2017 , 433-476	1
669	Simultaneous reduction and surface functionalization of graphene oxide for enhancing flame retardancy and thermal conductivity of mesogenic epoxy composites. 2017 , 66, 98-107	19
668	Super-high thermal conductivity of polyamide-6/graphene-graphene oxide composites through in situ polymerization. 2017 , 29, 585-594	28
667	Extreme mechanical reinforcement in graphene oxide based thin-film nanocomposites via covalently tailored nanofiller matrix compatibilization. 2017 , 114, 367-376	42
666	Thermally conductive composite film filled with highly dispersed graphene nanoplatelets via solvent-free one-step fabrication. 2017 , 110, 171-177	27
665	Thermal investigation of high-power UV-LEDs using graphene oxide silicone encapsulant. 2017 ,	

664	Graphene nanocomposites as thermal interface materials for cooling energy devices. 2017 , 891, 012359	9
663	Influence from the types of surface functional groups of RGO on the performances of thermal interface materials. 2017 , 7, 55790-55795	16
662	Great Thermal Conductivity Enhancement of Silicone Composite with Ultra-Long Copper Nanowires. 2017 , 12, 462	8
661	High Thermal Conductivity Mold Compounds for Advanced Packaging Applications. 2017 ,	0
660	Modeling thermal conductivity of graphene-based nanocomposites. 2017 ,	2
659	Silver nanoparticle deposited boron nitride nanosheet/nanofibrillated cellulose composites with enhanced thermal conductivity. 2017 ,	
658	7 Graphene/Polymer Composite Materials: Processing, Properties and Applications. 2017 , 349-419	14
657	Effect of Preparation Methods on the Tensile, Morphology and Solar Energy Conversion Efficiency of RGO/PMMA Nanocomposites. 2017 , 9,	4
656	Thermal Conductivity of Graphene-Polymer Composites: Mechanisms, Properties, and Applications. 2017 , 9,	194
655	Thermal Performance Simulation of MWNT/NR composites Based on Levenberg-Marquard Algorithm. 2017 , 170, 012012	
654	A Facile Approach to Tune the Electrical and Thermal Properties of Graphene Aerogels by Including Bulk MoS ₂ 2017 , 7,	21
653	Thermal Management of Concentrated Multi-Junction Solar Cells with Graphene-Enhanced Thermal Interface Materials. 2017 , 7, 589	46
652	Effect of Filler Shape on the Thermal Conductivity of Thermal Functional Composites. 2017 , 2017, 1-15	12
651	RGO and Three-Dimensional Graphene Networks Co-modified TIMs with High Performances. 2017 , 12, 527	18
650	Boron nitride microsphere/epoxy composites with enhanced thermal conductivity. 2017 , 2, 147-153	25
649	Molecular dynamics simulation of the effect of oxygen-containing functional groups on the thermal conductivity of reduced graphene oxide. 2018 , 148, 176-183	19
648	Thermal insulation of silica aerogel/PMMA composites with amino-capped polydivinylsiloxane phase interfaces. 2018 , 25, 1107-1114	5
647	Improving the thermal conductivity and mechanical property of epoxy composites by introducing polyhedral oligomeric silsesquioxane-grafted graphene oxide. 2018 , 39, E1890-E1899	12

646	A review on thermally conductive polymeric composites: classification, measurement, model and equations, mechanism and fabrication methods. 2018 , 1, 207-230	192
645	Synergetic enhancement of thermal conductivity by constructing hybrid conductive network in the segregated polymer composites. 2018 , 162, 7-13	105
644	Thermal conductivity of pillared graphene-epoxy nanocomposites using molecular dynamics. 2018 , 112, 151902	12
643	Effect of sonication on the mechanical response of graphene nanoplatelets/glass fabric/epoxy laminated nanocomposites. 2018 , 147, 33-41	16
642	The critical particle size for enhancing thermal conductivity in metal nanoparticle-polymer composites. 2018 , 123, 074302	11
641	Improvement of thermal conductivities for silicone nanocomposite via incorporating poly(Emethacryloxypropyltrimethoxy silane) grafted graphene fillers. 2018 , 693, 121-126	9
640	Two-Dimensional Materials for Thermal Management Applications. 2018 , 2, 442-463	190
639	Thermal transport in organic/inorganic composites. 2018 , 12, 72-86	13
638	Investigation of phase separated polyimide blend films containing boron nitride using FTIR imaging. 2018 , 195, 1-6	9
637	Analytical and molecular dynamics simulation approaches to study behavior of multilayer graphene-based nanoresonators incorporating interlayer shear effect. 2018 , 124, 1	3
636	Numerical study on the thermal behavior of graphene nanoplatelets/epoxy composites. 2018 , 9, 673-679	15
635	Extreme temperature stability of thermally insulating graphene-mesoporous-silicon nanocomposite. 2018 , 29, 145701	7
634	Interface Anchored Effect on Improving Working Stability of Deep Ultraviolet Light-Emitting Diode Using Graphene Oxide-Based Fluoropolymer Encapsulant. 2018 , 10, 8238-8244	10
633	Enhanced thermal transport across multilayer graphene and water by interlayer functionalization. 2018 , 112, 041603	47
632	Thermal interface materials based on graphene and silver nanopowder. 2018 , 44, 16-20	
631	A smart thermoregulatory nanocomposite membrane with improved thermal properties: simultaneous use of graphene family and micro-encapsulated phase change material. 2018 , 004051751775064 ⁷	
630	Strength of Mg β Al alloy in presence of graphene nano-platelets as reinforcement. 2018 , 34, 1086-1095	8
629	Thermal conductivity enhancements and viscosity properties of water based Nanofluid containing carbon nanotubes decorated with ag nanoparticles. 2018 , 54, 1847-1852	6

628	Synthesis and Characterization of Functionalized Fe ₃ O ₄ /Boron Nitride as Magnetically Alignable 2D-Nanofiller to Improve the Thermal Conductivity of Epoxy Nanocomposites. 2018 , 57, 1803-1814	16
627	Molecular Dynamics Study on the Thermal Conductivity of the End-grafted Carbon Nanotubes Filled Polyamide-6.6 Nanocomposites. 2018 , 122, 1412-1421	21
626	Effect of defects on thermal conductivity of graphene/epoxy nanocomposites. 2018 , 130, 295-303	93
625	Bioinspired mechanical and thermal conductivity reinforcement of highly explosive-filled polymer composites. 2018 , 107, 1-9	23
624	Rational design of aromatic surfactants for graphene/natural rubber latex nanocomposites with enhanced electrical conductivity. 2018 , 516, 34-47	31
623	A three-dimensional multilayer graphene web for polymer nanocomposites with exceptional transport properties and fracture resistance. 2018 , 5, 275-284	87
622	Enhanced thermal conductivity and flame retardancy of polyamide 6/flame retardant composites with hexagonal boron nitride. 2018 , 38, 767-774	11
621	Thermal transport in polymeric materials and across composite interfaces. 2018 , 12, 92-130	177
620	A review on thermal management methods for robots. 2018 , 140, 799-813	28
619	Highly graphitized 3D network carbon for shape-stabilized composite PCMs with superior thermal energy harvesting. 2018 , 49, 86-94	135
618	Graphene Helicoid: Distinct Properties Promote Application of Graphene Related Materials in Thermal Management. 2018 , 122, 7605-7612	18
617	Thermal property improvement of polytetrafluoroethylene nanocomposites with graphene nanoplatelets.. 2018 , 8, 11367-11374	19
616	Highly thermally conductive and mechanically robust polyamide/graphite nanoplatelet composites via mechanochemical bonding techniques with plasma treatment. 2018 , 160, 245-254	29
615	Self-Assembly of Carbon Nanotubes and Boron Nitride via Electrostatic Interaction for Epoxy Composites of High Thermal Conductivity and Electrical Resistivity. 2018 , 26, 521-528	25
614	Graphene enhanced flexible expanded graphite film with high electric, thermal conductivities and EMI shielding at low content. 2018 , 133, 435-445	80
613	Multifunctional anisotropic flexible cycloaliphatic epoxy resin nanocomposites reinforced by aligned graphite flake with non-covalent biomimetic functionalization. 2018 , 109, 472-480	21
612	Preparation and characterization of synergistically improved thermally conductive polyamide 6 with low melting point metal and low-temperature expandable graphite. 2018 , 39, 1818-1826	2
611	Novel nanostructured thermal interface materials: a review. 2018 , 63, 22-45	143

610	Present and future thermal interface materials for electronic devices. 2018 , 63, 1-21	127
609	Synergetic effect of graphite nanosheets and spherical alumina particles on thermal conductivity enhancement of silicone rubber composites. 2018 , 39, E1364-E1371	12
608	Three-dimensional graphene monolith-based composite: superiority in properties and applications. 2018 , 63, 204-225	25
607	Thermal, electrical and mechanical properties of graphene foam filled poly(methyl methacrylate) composite prepared by in situ polymerization. 2018 , 135, 201-206	41
606	The combination of π - π interaction and covalent bonding can synergistically strengthen the flexible electrical insulating nanocomposites with well adhesive properties and thermal conductivity. 2018 , 155, 1-10	25
605	Effective thermal conductivity of polymer composites: Theoretical models and simulation models. 2018 , 117, 358-374	107
604	Thermal management of lithium ion batteries using graphene coated nickel foam saturated with phase change materials. 2018 , 124, 23-35	103
603	Enhanced thermal conductivity of graphene/polyimide hybrid film via a novel π -molecular welding strategy. 2018 , 126, 319-327	61
602	Recyclable thermosetting thermal pad using silicone-based polyurethane crosslinked by Diels-Alder adduct. 2018 , 429, 128-133	20
601	Raman-based technique for measuring thermal conductivity of graphene and related materials. 2018 , 49, 106-120	74
600	A Facile Route to Fabricate Highly Anisotropic Thermally Conductive Elastomeric POE/NG Composites for Thermal Management. 2018 , 5, 1700946	37
599	Synergistic effects of segregated network by polymethylmethacrylate beads and sintering of copper nanoparticles on thermal and electrical properties of epoxy composites. 2018 , 155, 144-150	32
598	Thermal properties of graphene/metal composites with aligned graphene. 2018 , 140, 85-94	164
597	Reduced graphene oxide based temperature sensor: Extraordinary performance governed by lattice dynamics assisted carrier transport. 2018 , 258, 424-435	53
596	A Theoretical Review on Interfacial Thermal Transport at the Nanoscale. 2018 , 14, 1702769	54
595	Investigation of the through-plane thermal conductivity of polymer composites with in-plane oriented hexagonal boron nitride. 2018 , 120, 1-8	128
594	Largely enhanced thermal conductivity of graphene/copper composites with highly aligned graphene network. 2018 , 127, 102-112	162
593	Effect of oxygen functionalities of graphene oxide on polymerization and thermal properties of reactive benzoxazine nanocomposites. 2018 , 26, 77-84	7

592	Vertically aligned graphene film/epoxy composites as heat dissipating materials. 2018 , 118, 510-517	36
591	Atomistic modeling of graphene/hexagonal boron nitride polymer nanocomposites: a review. 2018 , 8, e1346	63
590	Electrically insulating POE/BN elastomeric composites with high through-plane thermal conductivity fabricated by two-roll milling and hot compression. 2018 , 1, 160-167	56
589	Influence of covalent and non-covalent modification of graphene on the mechanical, thermal and electrical properties of epoxy/graphene nanocomposites: a review. 2018 , 25, 381-414	44
588	Thermo-optical characterization and thermal properties of graphene-polymer composites: a review. 2018 , 6, 2901-2914	15
587	Silver Nanoparticle-Deposited Aluminum Oxide Nanoparticle as Fillers for Epoxy Composites with High Thermal Conductivity. 2018 , 27, 096369351802700	3
586	Materials and Structures toward Soft Electronics. 2018 , 30, e1801368	298
585	Determination of Key Influencing Factors on Thermal Conductivity Enhancement of Graphene Nano-Platelets Reinforced Epoxy. 2018 ,	
584	Measurement of the thermal conductivities of suspended MoS and MoSe by nanosecond ET-Raman without temperature calibration and laser absorption evaluation. 2018 , 10, 23087-23102	36
583	Highly thermally conductive flame retardant epoxy nanocomposites with multifunctional ionic liquid flame retardant-functionalized boron nitride nanosheets. 2018 , 6, 20500-20512	63
582	Color tuning and white light emission by codoping in isostructural homochiral lanthanide metal-organic frameworks.. 2018 , 8, 42100-42108	11
581	Aminopropyltrimethoxysilane-functionalized boron nitride nanotube based epoxy nanocomposites with simultaneous high thermal conductivity and excellent electrical insulation. 2018 , 6, 20663-20668	30
580	A study on thermal conductivity properties of heat dissipation sheet using graphene composite adhesive. 2018 , 677, 65-73	1
579	Graphene-Assisted Thermal Interface Materials with a Satisfied Interface Contact Level Between the Matrix and Fillers. 2018 , 13, 276	14
578	Electrothermal Characterization of the Electrical Resistance of Graphene Contacts for Packages. 2018 ,	
577	Tensile performance of graphene nanoplatelets/glass fabric/epoxy nanocomposite laminae. 2018 , 10, 249-256	4
576	Electrochemically Synthesized Nanocomposites for MEMS Device Performance Enhancement. 2018 ,	
575	Liquid-Phase Exfoliation of Graphene: An Overview on Exfoliation Media, Techniques, and Challenges. 2018 , 8,	133

574	Graphene-Based Thermal Interface Materials: An Application-Oriented Perspective on Architecture Design. 2018 , 10,	25
573	Preliminary Studies on the Reflectance Characteristics of graphene/SiO ₂ under Different Applied Voltages for Optical Modulation Applications. 2018 , 995, 012058	
572	Role of Molecular Polarity in Thermal Transport of Boron Nitride-Organic Molecule Composites. 2018 , 3, 12530-12534	19
571	Fabrication of Thermal Conductivity Enhanced Polymer Composites by Constructing an Oriented Three-Dimensional Staggered Interconnected Network of Boron Nitride Platelets and Carbon Nanotubes. 2018 , 10, 36342-36351	53
570	An aqueous-only, green route to exfoliate boron nitride for preparation of high thermal conductive boron nitride nanosheet/cellulose nanofiber flexible film. 2018 , 168, 287-295	39
569	Graphene Applications in Advanced Thermal Management. 2018 , 823-865	
568	Theoretical Prediction of Heat Transport in Few-Layer Graphene/Epoxy Composites. 2018 , 26, 978-983	4
567	Thermal Percolation Threshold and Thermal Properties of Composites with High Loading of Graphene and Boron Nitride Fillers. 2018 , 10, 37555-37565	173
566	Nanocomposite plasters for the treatment of superficial tumors by chemo-photothermal combination therapy. 2018 , 13, 6235-6247	9
565	Synergistic effect of exfoliated graphene nanoplatelets and non-halogen flame retardants on flame retardancy and thermal properties of kenaf flour-PP nanocomposites. 2018 , 134, 1681-1703	49
564	Scalable Approach to Construct Self-Assembled Graphene-Based Films with An Ordered Structure for Thermal Management. 2018 , 10, 41690-41698	19
563	Tuning the Oxidation Degree of Graphite toward Highly Thermally Conductive Graphite/Epoxy Composites. 2018 , 30, 7473-7483	19
562	Phonon branch-resolved electron-phonon coupling and the multitemperature model. 2018 , 98,	20
561	Breaking the Nanoparticle Loading-Dispersion Dichotomy in Polymer Nanocomposites with the Art of Croissant-Making. 2018 , 12, 9040-9050	12
560	Hydrated aramid nanofiber network enhanced flexible expanded graphite films towards high EMI shielding and thermal properties. 2018 , 168, 28-37	28
559	Highly thermally conductive layered polymer composite from solvent-exfoliated pristine graphene. 2018 , 140, 596-602	24
558	Thermal conductivity of graphene nanoplatelet/cycloaliphatic epoxy composites: Multiscale modeling. 2018 , 140, 653-663	32
557	Thermal transport in semiconductor nanostructures, graphene, and related two-dimensional materials. 2018 , 27, 056301	10

556	Effective thermal transport highway construction within dielectric polymer composites via a vacuum-assisted infiltration method. 2018 , 6, 6494-6501	35
555	Simultaneous enhancement on thermal and mechanical properties of polypropylene composites filled with graphite platelets and graphene sheets. 2018 , 112, 57-63	46
554	Significant improvement in the interface thermal conductivity of graphene-nanoplatelets/silicone composite. 2018 , 5, 055606	3
553	Emerging trends in 2D nanotechnology that are redefining our understanding of Nanocomposites 2018 , 21, 18-40	47
552	Synergetic Improvement in Thermal Conductivity and Flame Retardancy of Epoxy/Silver Nanowires Composites by Incorporating "Branch-Like" Flame-Retardant Functionalized Graphene. 2018 , 10, 21628-21641 ¹⁰⁰	
551	Carbonization temperature controlled thermal conductivity of graphitic carbon nanoparticles and their polymer composites. 2018 , 8, 055332	2
550	Theory of thermal conductivity of graphene-polymer nanocomposites with interfacial Kapitza resistance and graphene-graphene contact resistance. 2018 , 137, 222-233	73
549	Facile In-situ Polymerization of Thermotropic Liquid Crystalline Polymers as Thermally Conductive Matrix Materials. 2018 , 19, 1143-1149	3
548	Fabricating high thermal conductivity rGO/polyimide nanocomposite films a freeze-drying approach.. 2018 , 8, 22169-22176	15
547	Computational modeling of graphene nanopore for using in DNA sequencing devices. 2018 , 103, 403-416	5
546	Graphene Platelets and Their Polymer Composites: Fabrication, Structure, Properties, and Applications. 2018 , 28, 1706705	127
545	Study of the absorption coefficient of graphene-polymer composites. 2018 , 8, 9132	41
544	Photocurable shape-memory polyether-polythioether/graphene nanocomposites and the study of their thermal conductivity. 2018 , 25, 1	4
543	Distinct Mechanical Properties of Polymer/Polymer-Grafting-Graphene Nanocomposites. 2018 , 219, 1800161	9
542	Sustainable thermal interface materials from recycled cotton textiles and graphene nanoplatelets. 2018 , 113, 044103	14
541	Facile fabrication of large 3D graphene filler modified epoxy composites with improved thermal conduction and tribological performance. 2018 , 139, 1168-1177	41
540	Effect of carbon-based hybrid nano-fillers on the thermal conductivity of PCM composites. 2018 , 380, 012008	2
539	Mechanisms behind the enhancement of thermal properties of graphene nanofluids. 2018 , 10, 15402-15409	36

538	Graphene As a Sensitizing Additive to High-Energy Cobalt Salt for Enhanced Initiation by a High-Current Electron Beam. 2018 , 44, 522-524	4
537	Scalable preparation of graphene reinforced Zirconium diboride composites with strong dynamic response. 2018 , 139, 1020-1026	13
536	Influence from defects of three-dimensional graphene networks on the interface condition between the graphene basal plane and various resins.. 2018 , 8, 27811-27817	8
535	Recent Advances in Graphene-Based Free-Standing Films for Thermal Management: Synthesis, Properties, and Applications. 2018 , 8, 63	31
534	Thermal Transport in Micro- and Nanoscale Systems. 2018 , 277-327	1
533	Electrical properties of a graphene nanoplatelets composite as interposer for electronic packages. 2018 ,	
532	Thermal conductivity of polymers and polymer nanocomposites. 2018 , 132, 1-22	318
531	Fabrication of Polyamide 6 Nanocomposite with Improved Thermal Conductivity and Mechanical Properties via Incorporation of Low Graphene Content. 2018 , 57, 10967-10976	22
530	The Rediscovery of POSS: A Molecule Rather than a Filler. 2018 , 10,	57
529	In-Situ Molecular welding preparation of graphene/polyimide hybrid film with superior thermal conductivity and flexibility. 2018 , 56, 1215-1223	6
528	Synthesis of a Graphene Carbon Nanotube Hybrid Film by Joule Self-Heating CVD for Thermal Applications. 2018 ,	2
527	Graphene Nanoplatelets-Based Advanced Materials and Recent Progress in Sustainable Applications. 2018 , 8, 1438	108
526	Size effect of thermal conductivity in monolayer graphene. 2018 , 144, 488-494	17
525	Improved thermal conductivity of carbon-based thermal interface materials by high-magnetic-field alignment. 2018 , 140, 24-29	33
524	Anisotropic Thermal Interface Materials: Directional Heat Transfer in Uniaxially Oriented Liquid Crystal Networks. 2018 , 10, 35557-35562	20
523	Extremely high thermal conductivity of nanodiamond-polydopamine/thin-layer graphene composite films. 2018 , 167, 313-322	18
522	Highly thermal conductive and electrically insulating polymer composites based on polydopamine-coated copper nanowire. 2018 , 164, 153-159	54
521	First-principles phonon thermal transport in graphene: Effects of exchange-correlation and type of pseudopotential. 2018 , 123, 215105	16

520	Reaction mechanism of Al-CuO nanothermites with addition of multilayer graphene. 2018 , 666, 60-65	39
519	Roles of silica-coated layer on graphite for thermal conductivity, heat dissipation, thermal stability, and electrical resistivity of polymer composites. 2018 , 148, 295-302	24
518	A New Generation Material Graphene: Applications in Water Technology. 2019 ,	15
517	Modelling and analysis of effective thermal conductivity for polymer composites with sheet-like nanoparticles. 2019 , 54, 356-369	10
516	Research on Gas-Phase Direct Epoxidation of Propylene by Nanosized Gold Catalysts. 2019 , 242, 042016	
515	Graphene Oxide and Oxidized Carbon Black as Catalyst for Crosslinking of Phenolic Resins. 2019 , 11,	5
514	A facile route to fabricate thermally conductive and electrically insulating polymer composites with 3D interconnected graphene at an ultralow filler loading. 2019 , 11, 15234-15244	20
513	Unsaturated Polyester Nanocomposites. 2019 , 101-124	0
512	Graphene and carbon nanotube reinforced epoxy nanocomposites: A review. 2019 , 180, 121724	75
511	A Review on Graphene Polymer Nanocomposites in Harsh Operating Conditions. 2019 , 58, 17106-17129	18
510	Thermal Characterization of Low-Dimensional Materials by Resistance Thermometers. 2019 , 12,	1
509	3D interconnected structure of poly(methyl methacrylate) microbeads coated with copper nanoparticles for highly thermal conductive epoxy composites. 2019 , 175, 107105	20
508	Study on epoxy resin based thermal adhesive composite incorporated with expanded graphite/silver flake hybrids. 2019 , 20, 100561	7
507	Thermal conductivity of highly filled polymer nanocomposites. 2019 , 182, 107717	13
506	Ultrahigh and anisotropic thermal transport in the hybridized monolayer (BCN) of boron nitride and graphene: a first-principles study. 2019 , 21, 17306-17313	10
505	A Review on Investigation of Graphene Thermal Property: Recent Development in Measurement Techniques. 2019 , 1, 267-279	1
504	Preparation of graphene/aligned carbon nanotube array composite films for thermal packaging applications. 2019 , 58, SHHH01	4
503	Temperature dependent thermal conductivity of free-standing reduced graphene oxide/poly (vinylidene fluoride-co-hexafluoropropylene) composite thin film. 2019 , 6, 115604	5

502	Thermal and electrical anisotropy of polymer matrix composite materials reinforced with graphene nanoplatelets and aluminum-based particles. 2019 , 100, 107571	10
501	High-Performance Thermally Conductive Phase Change Composites by Large-Size Oriented Graphite Sheets for Scalable Thermal Energy Harvesting. 2019 , 31, e1905099	135
500	Quantitative Mapping of Nanothermal Transport via Scanning Thermal Microscopy. 2019 ,	1
499	Largely enhanced thermal conductive, dielectric, mechanical and anti-dripping performance in polycarbonate/boron nitride composites with graphene nanoplatelet and carbon nanotube. 2019 , 184, 107862	38
498	Thermal transport properties at interface of fatty acid esters enhanced with carbon-based nanoadditives. 2019 , 145, 118762	4
497	Effect of various carbon nanofillers and different filler aspect ratios on the thermal conductivity of epoxy matrix nanocomposites. 2019 , 15, 102771	14
496	How to characterize interfacial load transfer in spiral carbon-based nanostructure-reinforced nanocomposites: is this a geometry-dependent process?. 2019 , 21, 23880-23892	6
495	Cotton Candy-Templated Fabrication of Three-Dimensional Ceramic Pathway within Polymer Composite for Enhanced Thermal Conductivity. 2019 , 11, 44700-44707	41
494	Graphene Structures: From Preparations to Applications. 2019 , 323-357	2
493	Polymer/Graphene Nanomaterials: A Platform for Current High-Tech Applications. 2019 , 455-469	1
492	Co-curable poly(glycidyl methacrylate)-grafted graphene/epoxy composite for thermal conductivity enhancement. 2019 , 183, 121834	14
491	Thermal Energy Transport across the Interface between Phase Change Material n-Heneicosane in Solid and Liquid Phases and Few-Layer Graphene. 2019 , 123, 29192-29202	8
490	Dielectric Nanomaterials for Power Energy Storage: Surface Modification and Characterization. 2019 , 2, 627-642	32
489	Observation of a threshold behavior in an ultracold endothermic atom-exchange process involving Feshbach molecules. 2019 , 100,	3
488	Thermal and Mechanical Behavior of Wood Plastic Composites by Addition of Graphene Nanoplatelets. 2019 , 11,	7
487	Graphite/UPE Nanocomposite: Transport, Thermal, Mechanical and Viscoelastic Properties. 2019 , 23, 201-212	
486	Flexible GnPs/EPDM with Excellent Thermal Conductivity and Electromagnetic Interference Shielding Properties. 2019 , 14, 1950075	5
485	Directional dependence of electrical and thermal properties in graphene-nanoplatelet-based composite materials. 2019 , 15, 102608	13

484	Multiscale Investigation of Interfacial Thermal Properties of n-Octadecane Enhanced with Multilayer Graphene. 2019 , 123, 23297-23305	3
483	Rapid roll-to-roll production of graphene films using intensive Joule heating. 2019 , 155, 462-468	44
482	Graphene Nanofluids as Thermal Management Materials: Molecular Dynamics Study on Orientation and Temperature Effects. 2019 , 2, 6828-6835	4
481	A Review of the Performance and Characterization of Conventional and Promising Thermal Interface Materials for Electronic Package Applications. 2019 , 48, 7623-7634	22
480	Synergistic enhancement of heat transfer between irregular shaped particles and boron nitride flakes at low loading. 2019 , 15, 102599	0
479	A trade-off study toward highly thermally conductive and mechanically robust thermoplastic composites by injection moulding. 2019 , 183, 107787	17
478	Metal-Level Thermally Conductive yet Soft Graphene Thermal Interface Materials. 2019 , 13, 11561-11571	117
477	High thermal conductive Cu-diamond composites synthesized by electrodeposition and the critical effects of additives on void-free composites. 2019 , 45, 19658-19668	8
476	Efficient thermal conductivity modulation by manipulating interlayer interactions: A comparative study of bilayer graphene and graphite. 2019 , 126, 125104	7
475	Orientation dependent physical transport behavior and the micro-mechanical response of ZnO nanocomposites induced by SWCNTs and graphene: importance of intrinsic anisotropy and interfaces. 2019 , 7, 1208-1221	3
474	Bifunctional sandwich structure of vertically-oriented graphenes and boron nitride nanosheets for thermal management of LEDs and Li-ion battery. 2019 , 150, 1016-1027	12
473	Effect of covalent functionalization and phase change matrix on heat transfer across graphene/phase change material interfaces. 2019 , 151, 38-45	15
472	Enhanced thermal properties of PDMS composites containing vertically aligned graphene tubes. 2019 , 150, 840-848	31
471	Photoresponsive Actuators Built from Carbon-Based Soft Materials. 2019 , 7, 1900069	55
470	GaN in different dimensionalities: Properties, synthesis, and applications. 2019 , 138, 60-84	19
469	Designing Poly(vinylidene fluoride)-Silicon Carbide Nanowire Composite Structures to Achieve High Thermal Conductivity. 2019 , 1, 2807-2818	9
468	Graphene foam-embedded epoxy composites with significant thermal conductivity enhancement. 2019 , 11, 17600-17606	68
467	Alumina-Coated Graphene Oxide Microspheres as Enhanced Antioxidative and Electrically Insulating Fillers for Thermal Interface Materials with High Thermal Conductivity. 2019 , 1, 1330-1335	12

466	Effects of surface roughness, temperature and pressure on interface thermal resistance of thermal interface materials. 2019 , 140, 705-716	32
465	Thermal and mechanical property of FCLED package component interconnected with Sn/MWCNT composite solder. 2019 , 30, 12869-12875	2
464	A review of processing techniques for graphene-reinforced metal matrix composites. 2019 , 34, 957-985	38
463	Highly stretchable and sensitive sensor based on GnP/EPDM composites with excellent heat dissipation performance. 2019 , 125, 1	2
462	Effect of Fiber Concentration on Mechanical and Thermal Properties of a Solder Matrix Fiber Composite Thermal Interface Material. 2019 , 9, 1045-1053	
461	Tailoring the thermal conductivity of Poly(dimethylsiloxane)/Hexagonal boron nitride composite. 2019 , 177, 262-273	9
460	Integration of bulk materials with two-dimensional materials for physical coupling and applications. 2019 , 18, 550-560	130
459	The improvement of thermal conductivity in silica gel composite employing graphene nano-particles. 2019 , 33, 1950147	1
458	Spherical core-shell Al@Al ₂ O ₃ filled epoxy resin composites as high-performance thermal interface materials. 2019 , 123, 260-269	54
457	The liquid-exfoliation of graphene assisted with hyperbranched polyethylene-g-polyhedral oligomeric silsesquioxane copolymer and its thermal property in polydimethylsiloxane nanocomposite. 2019 , 30, 355602	15
456	Thermal and electrical conductivity control in hybrid composites with graphene and boron nitride fillers. 2019 , 6, 085325	76
455	Synergistic effects on the enhancement of thermal conductive properties of thermal greases. 2019 , 136, 47726	13
454	Nonlinear bending of axially functionally graded microbeams reinforced by graphene nanoplatelets in thermal environments. 2019 , 6, 085615	7
453	3D Thermally Cross-Linked Graphene Aerogel-Enhanced Silicone Rubber Elastomer as Thermal Interface Material. 2019 , 6, 1900147	26
452	The alignment of AlN platelets in polymer matrix and its anisotropic thermal properties. 2019 , 5, 679-687	11
451	Tailored interphase and thermal interface resistance of self-assembled thermally reduced graphene oxide-polyamide hybrid/epoxy composites with enhanced thermal conductivity. 2019 , 136, 47826	5
450	Enhanced thermal conductivity by combined fillers in polymer composites. 2019 , 676, 198-204	13
449	Carbon-based functional nanomaterials: Preparation, properties and applications. 2019 , 179, 10-40	130

448	Silicon-Doped Diamond-Like Composite Film to Improve the Thermal Dissipated Performance of Light-Emitting Diode. 2019 , 7, 60104-60110	2
447	Nacre-inspired polymer composites with high thermal conductivity and enhanced mechanical strength. 2019 , 121, 92-99	49
446	Tailoring Thermal Transport Properties of Graphene Paper by Structural Engineering. 2019 , 9, 4549	5
445	Epoxy filled with bare and oxidized multi-layered graphene nanoplatelets: a comparative study of filler loading impact on thermal properties. 2019 , 54, 9247-9266	12
444	Thermal Conductivity of Protein-Based Materials: A Review. 2019 , 11,	20
443	Heat Transfer at the Interface of Graphene Nanoribbons with Different Relative Orientations and Gaps. 2019 , 12, 796	5
442	Enhanced thermal transport across a bi-crystalline graphene-polymer interface: an atomistic approach. 2019 , 21, 6229-6237	49
441	High-efficiency enhancement on thermal and electrical properties of epoxy nanocomposites with core-shell carbon foam template-coated graphene. 2019 , 120, 95-105	9
440	A novel silver nanoparticle-deposited aluminum oxide hybrids for epoxy composites with enhanced thermal conductivity and energy density. 2019 , 26, 1001-1011	9
439	Thermal modeling and comparative analysis of jet impingement liquid cooling for high power electronics. 2019 , 137, 42-51	26
438	Picosecond laser-direct fabrication of graphene-based electrodes for a gas sensor module with wireless circuits. 2019 , 210, 19-26	6
437	Synergistic Effect of Aligned Graphene Nanosheets in Graphene Foam for High-Performance Thermally Conductive Composites. 2019 , 31, e1900199	111
436	Microstructure of Cu-diamond composites with near-perfect interfaces prepared via electroplating and its thermal properties. 2019 , 150, 199-206	19
435	Improved Performance of Graphene in Heat Dissipation when Combined with an Orientated Magnetic Carbon Fiber Skeleton under Low-Temperature Thermal Annealing. 2019 , 12,	1
434	Electrostatic-driven self-assembled silica aerogel/tethacryloxyethyltrimethyl ammonium chloride/PMMA ternary nanocomposite with thermal insulation phase interfaces. 2019 , 14, 51-56	1
433	The Influence of Dispersion State of Graphene Sheets on the Microstructure and Thermal Conductivity of Free-Standing Reduced Graphene Oxide Films. 2019 , 14, 1950038	6
432	Enhancement of thermal conductivity and tensile strength of liquid silicone rubber by three-dimensional alumina network. 2019 , 17, 297-307	6
431	An Anisotropically High Thermal Conductive Boron Nitride/Epoxy Composite Based on Nacre-Mimetic 3D Network. 2019 , 29, 1900412	233

430	A Paper-Like Inorganic Thermal Interface Material Composed of Hierarchically Structured Graphene/Silicon Carbide Nanorods. 2019 , 13, 1547-1554	93
429	Mechanical, electrical, and electromagnetic properties of hybrid graphene/glass fiber/epoxy composite. 2019 , 27, 262-267	11
428	Enhanced thermal conductivity and lower density composites with brick-wall microstructure based on highly oriented graphite nanoplatelet: towards manufacturable cooling substrates for high power density electronic devices. 2019 , 30, 245204	8
427	Simulation of the thermomechanical behavior of graphene/PMMA nanocomposites via continuum mechanics. 2019 , 11, 655-669	1
426	The Effect of Shungite Additives on Electric Discharge in Ammonium Perchlorate. 2019 , 45, 1001-1003	
425	Optical methods for droplets evaporation on graphene nanocomposite surfaces. 2019 , 1421, 012063	
424	The effect of load and addition of MWCNTs on silicone based TIMs on thermal contact heat transfer across Cu/Cu interface. 2019 , 6, 1165h9	3
423	A combination of graphene and graphene nanoplatelets: An effective way to improve thermal conductivity for polymers. 2019 , 15, 102803	4
422	Tree-inspired radially aligned, bimodal graphene frameworks for highly efficient and isotropic thermal transport. 2019 , 11, 21249-21258	18
421	Study on the thermal, dielectric, and dynamic mechanical properties of graphene decorated with graphene quantum dots (GDGQD) reinforced epoxy nanocomposites. 2019 , 6, 125336	2
420	Further Enhancement of Thermal Conductivity through Optimal Uses of h-BN Fillers in Polymer-Based Thermal Interface Material for Power Electronics. 2019 ,	0
419	Use of nano structures for thermal mode of on-board appliances of space appliances. 2019 ,	
418	Enhanced thermal conductivity and mechanical properties of a GNP reinforced SiN composite.. 2019 , 9, 39986-39992	14
417	Measurement of thermal contact resistance between individual carbon fibers using a laser-flash Raman mapping method. 2019 , 141, 92-98	30
416	Silica coating onto graphene for improving thermal conductivity and electrical insulation of graphene/polydimethylsiloxane nanocomposites. 2019 , 35, 36-43	40
415	Bending induced interlayer shearing, rippling and kink buckling of multilayered graphene sheets. 2019 , 122, 340-363	32
414	Shape-stabilized phase change materials based on porous supports for thermal energy storage applications. 2019 , 356, 641-661	305
413	Synergistic Effect of Irregular Shaped Particles and Graphene on the Thermal Conductivity of Epoxy Composites. 2019 , 40, E1294-E1300	11

412	Pressure- and orientation-dependent elastic and ultrasonic characterisation of wurtzite boron nitride. 2019 , 92, 1	5
411	Role of oxygen functional groups for improved performance of graphene-silicone composites as a thermal interface material. 2019 , 145, 131-139	17
410	High-performance epoxy/binary spherical alumina composite as underfill material for electronic packaging. 2019 , 118, 67-74	59
409	Determination of physical properties of graphene doped ZnO (ZnO:Gr) nanocomposite thin films deposited by a thermionic vacuum arc technique. 2019 , 557, 27-33	16
408	Thermal conductivity enhancement of CNT/MoS ₂ /graphene/epoxy nanocomposites based on structural synergistic effects and interpenetrating network. 2019 , 163, 363-370	61
407	Large improvement of thermal transport and mechanical performance of polyvinyl alcohol composites based on interface enhanced by SiO ₂ nanoparticle-modified-hexagonal boron nitride. 2019 , 169, 167-175	52
406	Synergetic effect of hybrid fillers of boron nitride, graphene nanoplatelets, and short carbon fibers for enhanced thermal conductivity and electrical resistivity of epoxy nanocomposites. 2019 , 117, 11-22	71
405	Steady-state measurements of thermal transport across highly conductive interfaces. 2019 , 130, 874-881	3
404	Enhanced Thermal Conductivity of High Internal Phase Emulsions with Ultra-Low Volume Fraction of Graphene Oxide. 2019 , 35, 2738-2746	2
403	Superior thermal interface materials for thermal management. 2019 , 12, 80-85	38
402	Thermal conductivity of 2D nano-structured boron nitride (BN) and its composites with polymers. 2019 , 100, 170-186	195
401	Dual-Functional Graphene Composites for Electromagnetic Shielding and Thermal Management. 2019 , 5, 1800558	133
400	Graphene loaded with nano-Cu as a highly efficient foam interface material with excellent properties of thermal-electronic conduction, anti-permeation and electromagnetic interference shielding. 2019 , 361, 1110-1120	15
399	Investigation of heat transfer performance of various insulating materials for robots. 2019 , 131, 907-919	4
398	Atomic Properties and Electronic Structure. 2019 , 23-66	2
397	Thermal Conduction in Polymer Composites. 2019 , 77-110	5
396	Aligned-graphene composites: a review. 2019 , 54, 36-61	45
395	Improvement of graphene oxide/epoxy resin adhesive properties through interface modification. 2019 , 31, 341-349	8

394	Heat and moisture management in membranes containing magnetic field-induced oriented nanosurfaces. 2020 , 59, 204-214	1
393	Surfactant-assisted fabrication of graphene frameworks endowing epoxy composites with superior thermal conductivity. 2020 , 31, 244-248	9
392	A review on thermo-mechanical properties of bi-crystalline and polycrystalline 2D nanomaterials. 2020 , 45, 134-170	26
391	Tailoring the electrical and thermal conductivity of multi-component and multi-phase polymer composites. 2020 , 65, 129-163	39
390	Constructing a pea-pod-like alumina-graphene binary architecture for enhancing thermal conductivity of epoxy composite. 2020 , 381, 122690	86
389	Casein phosphopeptide-biofunctionalized graphene oxide nanoplatelets based cellulose green nanocomposites with simultaneous high thermal conductivity and excellent flame retardancy. 2020 , 382, 122733	25
388	Surface functionalization of few-layer black phosphorene and its flame retardancy in epoxy resin. 2020 , 382, 122991	55
387	Graphene related materials for thermal management. 2020 , 7, 012001	82
386	Controllable Ag-rGO heterostructure for highly thermal conductivity in layer-by-layer nanocellulose hybrid films. 2020 , 383, 123072	43
385	Significantly enhanced thermal conductivity in polyimide composites with the matching of graphene flakes and aluminum nitride by in situ polymerization. 2020 , 41, 740-747	5
384	Thermal Properties of the Binary-Filler Hybrid Composites with Graphene and Copper Nanoparticles. 2020 , 30, 1904008	110
383	Graphene-based composites for electrochemical energy storage. 2020 , 24, 22-51	214
382	Experimental investigation on the influence of carbon-based nanoparticle coating on the heat transfer characteristics of the microprocessor. 2020 , 54, 61-70	2
381	Improvement of thermal conductivity and dielectric constant of graphene-filled epoxy nanocomposites using colloidal polymerization approach. 2020 , 77, 2385-2404	5
380	Role of neuroparsin 1 in vitellogenesis in the mud crab, <i>Scylla paramamosain</i> . 2020 , 285, 113248	6
379	Investigation of mechanical properties of graphene decorated with graphene quantum dot-reinforced epoxy nanocomposite. 2020 , 137, 48680	5
378	Decomposed Copper(II) Acetate Over Expanded Graphite (EG) as Hybrid Filler to Fabricate Epoxy Based Thermal Interface Materials (TIMs). 2020 , 49, 34-47	4
377	Preparation of graphene nano-sheets from graphite flakes via milling-ultrasonication promoted process. 2020 , 20, 579-582	6

376	Quasi van der Waals epitaxy nitride materials and devices on two dimension materials. 2020 , 69, 104463	25
375	Emerging interface materials for electronics thermal management: experiments, modeling, and new opportunities. 2020 , 8, 10568-10586	41
374	The effects of temperature and alignment state of nanofillers on the thermal conductivity of both metal and nonmetal based graphene nanocomposites. 2020 , 185, 461-473	21
373	Sn/SnO hybrid graphene for thermal interface material and interconnections with Sn hybrid carbon nanotubes. 2020 , 253, 114485	3
372	Epoxy Nanocomposites with Reduced Graphene Oxide-Constructed Three-Dimensional Networks of Single Wall Carbon Nanotube for Enhanced Thermal Management Capability with Low Filler Loading. 2020 , 12, 3051-3058	30
371	Machine learning maximized Anderson localization of phonons in aperiodic superlattices. 2020 , 69, 104428	30
370	Hybrid percolation network in composite for selectively enhancing electrical and thermal conductivities. 2020 , 147, 119014	6
369	Effects of selective distribution of alumina micro-particles on rheological, mechanical and thermal conductive properties of asphalt/SBS/alumina composites. 2020 , 186, 107917	14
368	Construction of interconnected Al ₂ O ₃ doped rGO network in natural rubber nanocomposites to achieve significant thermal conductivity and mechanical strength enhancement. 2020 , 186, 107930	29
367	Robust polymer-based paper-like thermal interface materials with a through-plane thermal conductivity over 9 Wm ⁻¹ K ⁻¹ . 2020 , 392, 123784	42
366	Competing charge trapping and percolation in core-shell single wall carbon nanotubes/ polyaniline nanostructured composites. 2020 , 259, 116259	3
365	Self-Assembled Boron Nitride Nanotube Reinforced Graphene Oxide Aerogels for Dielectric Nanocomposites with High Thermal Management Capability. 2020 , 12, 1436-1443	19
364	Thermal modeling, analysis, and design. 2020 , 59-129	1
363	Unprecedentedly high thermal conductivity of carbon/epoxy composites derived from parameter optimization studies. 2020 , 186, 107915	12
362	High electrical conductivity in polydimethylsiloxane composite with tailored graphene foam architecture. 2020 , 1203, 127416	4
361	Non-Curing Thermal Interface Materials with Graphene Fillers for Thermal Management of Concentrated Photovoltaic Solar Cells. 2020 , 6, 2	13
360	Thermally conducting polymer/nanocarbon and polymer/inorganic nanoparticle nanocomposite: a review. 2020 , 59, 895-909	14
359	Recent advances in polymer-based thermal interface materials for thermal management: A mini-review. 2020 , 22, 100528	30

358	Graphene nanoplatelet modified basalt/epoxy multi-scale composites with improved tribological performance. 2020 , 460-461, 203481	16
357	Thermal conductivity of graphene-based polymer nanocomposites. 2020 , 142, 100577	77
356	Thermally enhanced polyolefin composites: fundamentals, progress, challenges, and prospects. 2020 , 21, 737-766	10
355	Graphene Aerogels: Structure Control, Thermal Characterization and Thermal Transport. 2020 , 41, 1	5
354	Three-dimensional interconnected networks for thermally conductive polymer composites: Design, preparation, properties, and mechanisms. 2020 , 142, 100580	90
353	0D-2D heterostructures as nanocatalysts for self-oscillating reactions: an investigation into chemical kinetics. 2020 , 22, 24516-24525	2
352	Effect of Alignment on Enhancement of Thermal Conductivity of Polyethylene-Graphene Nanocomposites and Comparison with Effective Medium Theory. 2020 , 10,	9
351	Facile and scalable fabrication of highly thermal conductive polyethylene/graphene nanocomposites by combining solid-state shear milling and FDM 3D-printing aligning methods. 2020 , 402, 126218	44
350	Simultaneously Improved Thermal and Dielectric Performance of Epoxy Composites Containing TiCT Platelet Fillers. 2020 , 12,	8
349	A comprehensive review on mechanical, electromagnetic radiation shielding, and thermal conductivity of fibers/inorganic fillers reinforced hybrid polymer composites. 2020 , 41, 3940-3965	56
348	Hybrid carbon thermal interface materials for thermoelectric generator devices. 2020 , 10, 18854	2
347	Improved thermo-physical properties and energy efficiency of hybrid PCM/graphene-silver nanocomposite in a hybrid CPV/thermal solar system. 2020 , 1	9
346	3D structural analysis of PI blend/BN composite film with FTIR spectro-microtomography. 2020 , 110, 103144	
345	Designing high thermal conductivity of cross-linked epoxy resin via molecular dynamics simulations. 2020 , 22, 19735-19745	11
344	A combination of nanodiamond and boron nitride for the preparation of polyvinyl alcohol composite film with high thermal conductivity. 2020 , 206, 122885	16
343	CNT modified layered MnO hybrid flame retardants: preparation and their performance in the flame retardancy of epoxy resins.. 2020 , 10, 27408-27417	5
342	Vertically Aligned Graphene for Thermal Interface Materials. 2020 , 1, 2000034	13
341	An elegant coupling: Freeze-casting and versatile polymer composites. 2020 , 109, 101289	26

340	Microwaves heating strategy to synthesize few layer graphene for polymer composites towards thermal and electrical applications. 2020 , 200, 108402	3
339	Effective medium theory for predictions of the thermal conductivity of multiphase carbon-based nanocomposites: methodologies and applications. 2020 , 33-53	
338	Artificial Nacre Epoxy Nanomaterials Based on Janus Graphene Oxide for Thermal Management Applications. 2020 , 12, 44273-44280	9
337	Styrene-Based Elastomer Composites with Functionalized Graphene Oxide and Silica Nanofiber Fillers: Mechanical and Thermal Conductivity Properties. 2020 , 10,	5
336	Dysprosium substituted nickel cobalt ferrite nanomaterials and their composites with reduced graphene oxide for photocatalysis. 2020 , 14, 1308-1316	3
335	Graphene/Carbon Composite Films as Thermal Management Materials. 2020 , 3, 9076-9087	5
334	Multifunctional Biocomposites Based on Polyhydroxyalkanoate and Graphene/Carbon Nanofiber Hybrids for Electrical and Thermal Applications. 2020 , 2, 3525-3534	20
333	Energy and Charge Transport in 2D Atomic Layer Materials: Raman-Based Characterization. 2020 , 10,	2
332	Characterization and Modification of Graphene-Based Interfacial Mechanical Behavior. 2020 ,	
331	Preparation of Boron Nitride Nanoplatelets via Amino Acid Assisted Ball Milling: Towards Thermal Conductivity Application. 2020 , 10,	8
330	RGO-Coated Polyurethane Foam/Segmented Polyurethane Composites as Solid-Solid Phase Change Thermal Interface Material. 2020 , 12,	8
329	Preparation and Properties of High-Conductive Graphene Nanosheets Reinforced Epoxy Composites. 2020 , 1637, 012029	
328	Comparison between CNT Thermal Interface Materials with Graphene Thermal Interface Material in Term of Thermal Conductivity. 2020 , 1010, 160-165	2
327	Properties of Graphene-Related Materials Controlling the Thermal Conductivity of Their Polymer Nanocomposites. 2020 , 10,	7
326	Production of graphene nanoplate/polyetheretherketone composites by semi-industrial melt-compounding. 2020 , 6, e03740	6
325	Vertically Aligned and Interconnected Graphite and Graphene Oxide Networks Leading to Enhanced Thermal Conductivity of Polymer Composites. 2020 , 12,	12
324	Graphene Epoxy-Based Composites as Efficient Electromagnetic Absorbers in the Extremely High-Frequency Band. 2020 , 12, 28635-28644	27
323	3D graphene and boron nitride structures for nanocomposites with tailored thermal conductivities: recent advances and perspectives. 2020 , 2, 022001	15

322	Synergistic Enhanced Thermal Conductivity of Epoxy Composites with Boron Nitride Nanosheets and Microspheres. 2020 , 124, 12723-12733	38
321	Power Cycling and Reliability Testing of Epoxy-Based Graphene Thermal Interface Materials. 2020 , 6, 26	15
320	Surface coordination of black phosphorene for excellent stability, flame retardancy and thermal conductivity in epoxy resin. 2020 , 397, 125416	32
319	Effects of grain dimensions and edge states on the thermal conductivity of graphene ribbons. 2020 , 108, 107919	2
318	Advanced thermal properties of carbon-based aerogels. 2020 , 221-269	1
317	Highly nanotextured nickel-electroplated bismuth vanadate micropillars for hotspot removal via air- and spray-cooling. 2020 , 156, 119731	9
316	Highly Flexible Graphene Derivative Hybrid Film: An Outstanding Nonflammable Thermally Conductive yet Electrically Insulating Material for Efficient Thermal Management. 2020 , 12, 26413-26423	25
315	Hybrid Graphene Nanocomposites: Thermal Interface Materials and Functional Energy Materials. 2020 ,	1
314	Mechanical Behavior of Melt-Mixed 3D Hierarchical Graphene/Polypropylene Nanocomposites. 2020 , 12,	7
313	Scalable production of thick graphene film for next generation thermal management application. 2020 , 167, 270-277	15
312	Thermal conductivity of aligned CNT-polyethylene nanocomposites and correlation with the interfacial thermal resistance. 2020 , 41, 3787-3797	6
311	A powder-metallurgy-based strategy toward three-dimensional graphene-like network for reinforcing copper matrix composites. 2020 , 11, 2775	57
310	Supersonically sprayed carbon nanotubes and silver nanowires as efficient heat spreaders and cooling films. 2020 , 127, 105105	2
309	New triepoxy monomer and composites for thermal and corrosion management. 2020 , 137, 49251	1
308	Reducing PV module temperature with radiation based PV module incorporating composite phase change material. 2020 , 29, 101346	25
307	Thermal properties and applications. 2020 , 415-447	1
306	Enhanced thermal conductivity of epoxy composites by introducing graphene@boron nitride nanosheets hybrid nanoparticles. 2020 , 191, 108663	59
305	Compression-enhanced thermal conductivity of carbon loaded polymer composites. 2020 , 163, 333-340	30

304	Highly Thermally Conductive Dielectric Nanocomposites with Synergistic Alignments of Graphene and Boron Nitride Nanosheets. 2020 , 30, 1910826	111
303	Nanocelluloses and Related Materials Applicable in Thermal Management of Electronic Devices: A Review. 2020 , 10,	18
302	Ultrasonic exfoliation of graphene in water: A key parameter study. 2020 , 168, 737-747	34
301	Improving Resistance-Temperature Characteristic of Polyethylene/Carbon Black Composites by Poly(3,4-Ethylenedioxythiophene)-Functionalized Multilayer Graphene. 2020 , 221, 2000144	4
300	A review on advanced carbon-based thermal interface materials for electronic devices. 2020 , 168, 65-112	43
299	Ultralight covalently interconnected silicon carbide aerofoam for high performance thermally conductive epoxy composites. 2020 , 138, 106028	9
298	Atomic-scale insights into interface thermal resistance between epoxy and boron nitride in nanocomposites. 2020 , 159, 120105	16
297	Combination of micro-computed X-ray tomography and electronic microscopy to understand the influence of graphene nanoplatelets on the thermal conductivity of epoxy composites. 2020 , 691, 178712	2
296	Molecular dynamics study on the thermal conductivity of bilayer graphene with nitrogen doping. 2020 , 309, 113845	6
295	High thermal conductivity EP adhesive based on the GO/EP interface optimized by TDI. 2020 , 31, 1356-1364	4
294	Noncuring Graphene Thermal Interface Materials for Advanced Electronics. 2020 , 6, 1901303	46
293	Dual Bio-Inspired Design of Highly Thermally Conductive and Superhydrophobic Nanocellulose Composite Films. 2020 , 12, 11115-11125	32
292	High thermal conductivity polylactic acid composite for 3D printing: Synergistic effect of graphene and alumina. 2020 , 31, 1291-1299	18
291	Introducing reduced graphene oxide to enhance the thermal properties of cement composites. 2020 , 109, 103559	24
290	High thermal conductivity in polydimethylsiloxane composite with vertically oriented graphene nanosheets by liquid-phase exfoliation. 2020 , 743, 137156	5
289	Hybridization of hexagonal boron nitride nanosheets and multilayer graphene: Enhanced thermal properties of epoxy composites. 2020 , 195, 108183	20
288	Improvement in anti-static property and thermal conductivity of epoxy resin by doping graphene. 2020 , 27, 542-548	5
287	High Thermal Conductivity Enhancement of Polymer Composites with Vertically Aligned Silicon Carbide Sheet Scaffolds. 2020 , 12, 23388-23398	31

286	Phononics of Graphene and Related Materials. 2020 , 14, 5170-5178	91
285	Preparation of Three-Dimensional Carbon Network Reinforced Epoxy Composites and Their Thermal Conductivity. 2020 , 26, 399-408	1
284	Study the metal-insulator transitions of bilayer graphene: Abelian group schemes approach. 2020 , 142, 106498	
283	Development of thermal energy storage lightweight concrete using paraffin-oil palm kernel shell-activated carbon composite. 2020 , 261, 121227	15
282	Low Melting-Point Alloy Boron Nitride Nanosheet Composites for Thermal Management. 2020 , 3, 3494-3502	8
281	Rational design of two-dimensional nanofillers for polymer nanocomposites toward multifunctional applications. 2021 , 115, 100708	49
280	Enhancement of thermal conductivity and dimensional stability of polyimide/boron nitride films through mechanochemistry. 2021 , 23, 100549	13
279	Thermal, electrical and mechanical properties of graphene/nano-alumina/epoxy composites. 2021 , 257, 123809	18
278	Accelerating first-principles estimation of thermal conductivity by machine-learning interatomic potentials: A MTP/ShengBTE solution. 2021 , 258, 107583	44
277	Endowing the sustainable antistatic properties to epoxy-based composites through adding graphene nanoplatelets. 2021 , 281, 124594	6
276	Progress in layered cathode and anode nanoarchitectures for charge storage devices: Challenges and future perspective. 2021 , 35, 443-469	18
275	Self-assembled 0D/2D nano carbon materials engineered smart and multifunctional cement-based composites. 2021 , 272, 121632	10
274	Mechanically Compliant Thermal Interfaces Using Biporous Copper-Polydimethylsiloxane Interpenetrating Phase Composite. 2021 , 8, 2001423	2
273	Liquid metal technology in solar power generation - Basics and applications. 2021 , 222, 110925	12
272	Quasi-Isotropic Thermal Conduction in Percolation Networks: Using the Pore-Filling Effect to Enhance Thermal Conductivity in Polymer Nanocomposites. 2021 , 3, 1293-1305	6
271	A review of thermal interface material fabrication method toward enhancing heat dissipation. 2021 , 45, 3548-3568	13
270	High thermal conductivity of graphene and structure defects: Prospects for thermal applications in graphene sheets. 2021 , 32, 1293-1298	5
269	Welding dopamine modified graphene nanosheets onto graphene foam for high thermal conductive composites. 2021 , 205, 108509	6

268	Phonon weak couplings model and its applications: A revisit to two-temperature non-equilibrium transport. 2021 , 16, 100305	11
267	Enhanced thermal conductivity and isotropy of polymer composites by fabricating 3D network structure from carbon-based materials. 2021 , 138, 49781	5
266	Strategies for enhancing thermal conductivity of polymer-based thermal interface materials: a review. 2021 , 56, 1064-1086	50
265	Recent Progress in Graphene/Polymer Nanocomposites. 2021 , 33, e2001105	75
264	Effect of graphene filler structure on electrical, thermal, mechanical, and fire retardant properties of epoxy-graphene nanocomposites - a review. 2021 , 46, 152-187	14
263	Heat Transport Control and Thermal Characterization of Low-Dimensional Materials: A Review. 2021 , 11,	3
262	Phonon transport in graphene based materials. 2021 , 23, 26030-26060	5
261	Preparation of rGO@FeO nanocomposite and its application to enhance the thermal conductivity of epoxy resin.. 2021 , 11, 16592-16599	5
260	Thermal Properties of the Graphene Oxide (GO) Reinforced Epoxy Composites (Thermal Adhesive Liquid Type): Application of Thermal Interface Materials. 2021 , 933-940	
259	Accurate self-damage detection by electrically conductive epoxy/graphene nanocomposite film. 2021 , 138, 50452	3
258	Does Thermal Percolation Exist in Graphene-Reinforced Polymer Composites? A Molecular Dynamics Answer. 2021 , 125, 1018-1028	4
257	Reduction of interface thermal resistance between TIM and metal surface by tuning wettability. 2021 , 87, 21-00023-21-00023	
256	Recent Advances in the Rational Design of Thermal Conductive Polymer Composites. 2021 , 60, 1137-1154	23
255	Graphene-based metal matrix nanocomposites: Recent development and challenges. 2021 , 55, 2369-2413	7
254	A review on allotropes of carbon and natural filler-reinforced thermomechanical properties of upgraded epoxy hybrid composite. 2021 , 60, 237-275	3
253	Thermally Conductive Film Fabricated Using Perforated Graphite Sheet and UV-Curable Pressure-Sensitive Adhesive. 2021 , 11,	3
252	High thermal conductivity and electrical insulation of liquid alloy/ceramic/epoxy composites through the construction of mutually independent structures. 2021 , 202, 108596	11
251	Preparation of Boron Nitride and Silicone Rubber Composite Material for Application in Lithium Batteries. 2021 , 14, 999	1

250	Physical Principles of Nanotube Thermal Properties Modeling Using the Cauchy Number Analogue. 2021 ,	
249	Multiscale Structural Modulation of Anisotropic Graphene Framework for Polymer Composites Achieving Highly Efficient Thermal Energy Management. 2021 , 8, 2003734	38
248	Nanocellulose-Graphene Hybrids: Advanced Functional Materials as Multifunctional Sensing Platform. 2021 , 13, 94	7
247	Robust modelling of implicit interfaces by the scaled boundary finite element method. 2021 , 124, 266-286	1
246	Hierarchically Organized Biomimetic Architected Silk Fibroin-Ceramic-Based Anisotropic Hybrid Aerogels for Thermal Energy Management. 2021 , 22, 1739-1751	5
245	Improving the flexibility of graphene nanosheets films by using aramid nanofiber framework. 2021 , 142, 106265	4
244	A dual-role theory of the aspect ratio of the nanofillers for the thermal conductivity of graphene-polymer nanocomposites. 2021 , 160, 103453	6
243	An accurate size-dependent sinusoidal shear deformable framework for GNP-reinforced cylindrical panels: Applications to dynamic stability analysis. 2021 , 160, 107400	16
242	Polymer nanocomposites with aligned two-dimensional materials. 2021 , 114, 101360	14
241	Filling the gap: thermal properties and device applications of graphene. 2021 , 64, 1	3
240	An Integrated Approach to Design and Develop High-Performance Polymer-Composite Thermal Interface Material. 2021 , 13,	2
239	Carbon-Based Composite Phase Change Materials for Thermal Energy Storage, Transfer, and Conversion. 2021 , 8, 2001274	45
238	Ultra-Flexible, Dielectric, and Thermostable Boron Nitride-Graphene Fluoride Hybrid Films for Efficient Thermal Management. 2021 , 8, 2002187	3
237	A two-sensor 3D method for thermal boundary resistance measurement. 2021 , 129, 125107	2
236	Highly thermal conductive epoxy nanocomposites filled with 3D BN/C spatial network prepared by salt template assisted method. 2021 , 209, 108609	30
235	Rational design of high-performance thermal interface materials based on gold-nanocap-modified vertically aligned graphene architecture. 2021 , 24, 100621	9
234	Effect of Exfoliated Graphene on Thermal Conductivity Enhancements of Graphene-Ironoxide Hybrid Nanofluids: Experimental Investigation and Effective Medium Theories. 67, 97-114	1
233	Evaluation of hyper-cross-linked polymers performances in the removal of hazardous heavy metal ions: A review. 2021 , 260, 118221	13

232	Thermal interface materials for cooling microelectronic systems: present status and future challenges. 2021 , 32, 11339-11366	5
231	Review of PCM types and suggestions for an applicable cascaded PCM for passive PV module cooling under tropical climate conditions. 2021 , 293, 126065	19
230	A multiscale study of the filler-size and temperature dependence of the thermal conductivity of graphene-polymer nanocomposites. 2021 , 175, 259-270	11
229	A mini review on thermally conductive polymers and polymer-based composites. 2021 , 24, 100617	28
228	Exceptional piezoelectricity, high thermal conductivity and stiffness and promising photocatalysis in two-dimensional MoSi ₂ N ₄ family confirmed by first-principles. 2021 , 82, 105716	70
227	Highly Thermally Conductive Graphene-Based Thermal Interface Materials with a Bilayer Structure for Central Processing Unit Cooling. 2021 , 13, 25325-25333	14
226	Enhanced thermal conductivity and fire safety of flexible hybrid film via synergistic effects between boron nitride and functionalized graphene. 1	0
225	Highly thermally conductive epoxy composites with anti-friction performance achieved by carbon nanofibers assisted graphene nanoplatelets assembly. 2021 , 151, 110443	13
224	A brief review of the graphene oxide-based polymer nanocomposite coatings: preparation, characterization, and properties. 2021 , 18, 945-969	4
223	Gallium-based liquid metal alloy incorporating oxide-free copper nanoparticle clusters for high-performance thermal interface materials. 2021 , 170, 121012	9
222	Sandwich-structured PVA/rGO films from self-construction with high thermal conductivity and electrical insulation. 2021 , 207, 108707	8
221	Electrothermal Modeling and Characterization of Graphene-Based Thin Strips. 2021 ,	0
220	Experimental and atomistic insight on the thermal transport properties of h-BN/high density polyethylene nanocomposite. 2021 , 170, 121039	6
219	Preparation and mechanism research of bio-inspired dopamine decorated expanded graphite/silicone rubber composite with high thermal conductivity and excellent insulation. 2021 , 32,	2
218	A Multiscale Investigation on the Thermal Transport in Polydimethylsiloxane Nanocomposites: Graphene vs. Borophene. 2021 , 11,	3
217	Thermal and electrical conductivity of a graphene-based hybrid filler epoxy composite. 2021 , 56, 15151	5
216	Atomistic molecular dynamic simulations of the thermal transport across h-BN/cellulose nanocrystal interface. 2021 , 171, 121043	3
215	Anomalous thermally expanded polymer networks for flexible perceptual devices. 2021 , 4, 1832-1862	2

214	Dual-Responsive Soft Actuator Based on Aligned Carbon Nanotube Composite/Graphene Bimorph for Bioinspired Applications. 2021 , 306, 2100166	4
213	In situ sintered silver decorated 3D structure of cellulose scaffold for highly thermoconductive electromagnetic interference shielding epoxy nanocomposites. 2021 , 138, 51193	3
212	Soft and Self-Adhesive Thermal Interface Materials Based on Vertically Aligned, Covalently Bonded Graphene Nanowalls for Efficient Microelectronic Cooling. 2021 , 31, 2104062	25
211	Effect of Expanded Graphite on Nitrate-Based Phase Change Materials being used in Thermal Energy Storage Systems. 2021 , 795, 012010	
210	Investigations on the thermal conduction behaviors of reduced graphene oxide/aramid nanofibers composites. 2021 , 116, 108422	3
209	Electrical Interconnection and Bonding by Nano-Locking. 2021 , 11,	
208	Effect of Defects on the Interfacial Thermal Conductance between n-Heneicosane in Solid and Liquid Phases and a Graphene Monolayer. 2021 , 125, 14149-14162	1
207	Graphene-mediated electrospray cooling for discrete heat sources in microslits. 2021 , 164, 106882	3
206	Multiscale Modeling on the Enhanced Heat Transfer Behavior of Thermal Interface Materials Based on Graphene. 2021 ,	
205	Noncured Graphene Thermal Interface Materials for High-Power Electronics: Minimizing the Thermal Contact Resistance. 2021 , 11,	7
204	Graphene nanocomposites: A review on processes, properties, and applications. 152808372110242	5
203	Anti-electrostatic electric discharge performance of ZnO/Silicone rubber composite with nonlinear conductivity. 2021 ,	
202	Localization of Poly(glycidyl methacrylate) Grafted on Reduced Graphene Oxide in Poly(lactic acid)/Poly(trimethylene terephthalate) Blends for Composites with Enhanced Electrical and Thermal Conductivities. 2021 , 4, 8511-8519	1
201	Anisotropy-functionalized cellulose-based phase change materials with reinforced solar-thermal energy conversion and storage capacity. 2021 , 415, 129086	37
200	Electrothermal Parameters of Graphene Nanoplatelets Films. 2021 ,	
199	Reduction of Device Operating Temperatures with Graphene-Filled Thermal Interface Materials. 2021 , 7, 53	3
198	Preparation of -Phenylenediamine Modified Graphene Foam/Polyaniline@Epoxy Composite with Superior Thermal and EMI Shielding Performance. 2021 , 13,	0
197	Ultrahigh thermal conductivity of epoxy composites based on curling bioinspired functionalized graphite films for thermal management application. 2021 , 146, 106413	1

196	Epoxy Composites with High Thermal Conductivity by Constructing Three-Dimensional Carbon Fiber/Carbon/Nickel Networks Using an Electroplating Method. 2021 , 6, 19238-19251	8
195	Nanocellulose Coupled 2D Graphene Nanostructures: Emerging Paradigm for Sustainable Functional Applications. 2021 , 60, 10882-10916	12
194	A Fast and Room-temperature Self-healing Thermal Conductive Polymer Composite. 2021 , 39, 1328-1336	4
193	Semiconductor Chip Electrical Interconnection and Bonding by Nano-Locking with Ultra-Fine Bond-Line Thickness. 2021 , 11,	1
192	Ag/GNS conductive laminated woven fabrics for EMI shielding applications. 2021 , 36, 1693-1700	1
191	Substrate effect and temperature dependence of thermal transport characteristics in GaN-based graphene. 2021 , 173, 121266	4
190	Tailoring Highly Ordered Graphene Framework in Epoxy for High-Performance Polymer-Based Heat Dissipation Plates. 2021 ,	21
189	Nanotube heat conductors under tensile strain: Reducing the three-phonon scattering strength of acoustic phonons. 2021 , 104,	0
188	Influence of Morphology and Surface Modification of MgO on Thermal Characteristics of Epoxy Composite. 2021 , 10, 087002	0
187	High-Temperature Skin Softening Materials Overcoming the Trade-Off between Thermal Conductivity and Thermal Contact Resistance. 2021 , 17, e2102128	2
186	Rashba-Type Dzyaloshinskii-Moriya Interaction, Perpendicular Magnetic Anisotropy, and Skyrmion States at 2D Materials/Co Interfaces. <i>Nano Letters</i> , 2021 , 21, 7138-7144	11.5 3
185	Molecular Dynamics Modeling of Mechanical Properties of Polymer Nanocomposites Reinforced by C7N6 Nanosheet. 2021 , 4, 240-254	2
184	. 2021 , 109, 1364-1397	8
183	Graphene-Based Nanocomposites: Synthesis, Mechanical Properties, and Characterizations. 2021 , 13,	16
182	Nanocellulose-Graphene Derivative Hybrids: Advanced Structure-Based Functionality from Top-down Synthesis to Bottom-up Assembly.. 2021 , 4, 7366-7401	2
181	Electrically Conductive Metal-Organic Framework Thin Film-Based On-Chip Micro-Biosensor: A Platform to Unravel Surface Morphology-Dependent Biosensing. 2102855	1
180	Controllable thermal conductivity in composites by constructing thermal conduction networks. 2021 , 20, 100449	34
179	Experimental Study of Pool Boiling Enhancement Using a Two-Step Electrodeposited Cu@NPs Nanocomposite Porous Surface With R-134a. 2021 , 143,	4

178	Lightweight thermal interface materials based on hierarchically structured graphene paper with superior through-plane thermal conductivity. 2021 , 419, 129609	22
177	Tuning the phonon transport in bilayer graphene to an anomalous regime dominated by electron-phonon scattering. 2021 , 104,	0
176	Magnesium oxychloride-graphene composites: Towards high strength and water resistant materials for construction industry. 2021 , 29, 100284	4
175	Molecular Dynamics Simulations of Polyamide-6 Composite with Covalently Bonded Graphene Network for Thermal Conductivity Enhancement.	2
174	Micro-Macroscopic coupled modeling for the prediction of synergistic improvement on the thermal conductivity of boron nitride and multi-walled carbon nanotube reinforced composites. 2021 , 148, 106474	2
173	Sustainable Development of Carbon Nanocomposites: Synthesis and Classification for Environmental Remediation. 2021 , 2021, 1-21	7
172	Mechanical Properties of Solution-Blended Graphene Nanoplatelets/Polyether-Ether-Ketone Nanocomposites. 2021 , 125, 10597-10609	0
171	Thermal interface materials with sufficiently vertically aligned and interconnected nickel-coated carbon fibers under high filling loads made via preset-magnetic-field method. 2021 , 213, 108922	3
170	Thermal conductivity measurement of solid materials using an μ TX method: A pilot study using DNA solid films. 2021 , 176, 121501	3
169	Advanced materials for personal thermal and moisture management of health care workers wearing PPE. 2021 , 146, 100639	7
168	Tuning thermal conductance of graphene-polyethylene composites via graphene inclination and curvature. 2021 , 178, 121634	1
167	Covalently bonded silica interfacial layer for simultaneously improving thermal and dielectric performance of copper/epoxy composite. 2021 , 26, 101404	0
166	Reducing thermal contact resistance by a novel elastomeric polyethylene glycol/unsaturated polyester resin/graphene thermal interface materials. 2021 , 127, 105553	6
165	Simultaneous enhancement in thermal conductivity and flame retardancy of flexible film by introducing covalent bond connection. 2021 , 421, 129729	12
164	Effect of loading fraction of three-dimensional graphene foam (3D-C) on thermal, mechanical, and shape memory properties of 3D-C/SMP composite. 2021 , 142, 111378	1
163	Thermal synergistic effect in hybrid filler epoxy composites consisting of graphene nanoplatelets and SiC particles. 2021 , 25, 100964	0
162	Graphene double cross-linked thermally conductive hydrogel with low thermal contact resistance, flexibility and self-healing performance. 2021 , 127, 105537	6
161	Multifunctional epoxy nanocomposites reinforced by two-dimensional materials: A review. 2021 , 185, 57-81	5

160	A review of carbon-based thermal interface materials: Mechanism, thermal measurements and thermal properties. 2021 , 209, 109936	17
159	Silver coated and filled carbon nanotubes: Synthesis, electrical and thermal properties, and iodine vapor sensing. 2021 , 120, 108551	0
158	Multiscale modeling and maximizing the thermal conductivity of Polyamide-6 reinforced by highly entangled graphene flakes. 2021 , 151, 106632	2
157	Thermal conductivity of graphene-polymer composites. 2022 , 245-273	
156	Thermal transport enhancement resolution for graphene/Si and graphene/SiC interfaces. 2022 , 171, 107231	2
155	Polymer-Hybrid Nanocomposites Films and Fiber-Based Nanoproducts. 2021 , 1-16	1
154	Recent progress in the development of thermal interface materials: a review. 2021 , 23, 753-776	19
153	Thermal interface materials with graphene fillers: review of the state of the art and outlook for future applications. 2021 , 32, 142003	37
152	LEDs in Harsh Environments. 2014 , 499-518	1
151	Efficient Removal of Aqueous Aromatic Pollutants by Various Techniques. 2019 , 261-285	2
150	Polymer composites with enhanced thermal conductivity via oriented boron nitride and alumina hybrid fillers assisted by 3-D printing. 2020 , 46, 20810-20818	34
149	Highly Oriented Graphite Aerogel Fabricated by Confined Liquid-Phase Expansion for Anisotropically Thermally Conductive Epoxy Composites. 2020 , 12, 27476-27484	16
148	Screen-printed nanostructured composites as thermal interface materials for insulated gate bipolar transistors heat dissipation applications. 2016 , 15, 044503	1
147	Tunable multilayer-graphene-based broadband metamaterial selective absorber. 2020 , 59, 11137-11145	3
146	Thermal Conductivity Performance of Polypropylene Composites Filled with Polydopamine-Functionalized Hexagonal Boron Nitride. 2017 , 12, e0170523	25
145	Boron nitride nanoplatelets as two-dimensional thermal fillers in epoxy composites: new scenarios at very low filler loadings. 2020 , 40, 859-867	4
144	Influence of graphene coating on altering the heat transfer behavior of microprocessors. 2019 , 61, 169-172	1
143	Photoreduction and Thermal Properties of Graphene-Based Flexible Films. 2017 , 06, 27-40	11

142	Graphite Nanoplatelets Composite Materials: Role of the Epoxy-System in the Thermal Conductivity. 2015 , 03, 75-87	11
141	Trends of Researches and Technologies of Electronic Packaging Using Graphene. 2016 , 23, 1-10	2
140	Recent progresses of thermal conduction in two-dimensional materials. 2020 , 69, 196602	1
139	The Preparation and Property of Carbon Foams from Carbon Black Embedded Pitch Using PU Template. 2016 , 54, 268-273	3
138	Comparison between two numerical methods for the computation of thermal conductivities of particulate composites: FEM and GeoDict. 2021 ,	
137	A mini review: application of graphene paper in thermal interface materials. 2021 , 36, 930-938	5
136	Improved Through-Plane Thermal Conductivity and Mechanical Properties of Low-Dielectric FEP/HBN Composites by Adding PTFE Nanoparticles. 2021 , 3, 4568-4578	1
135	Structural and magnetic properties of samarium-substituted spinel ferrites. 2021 , 127, 1	1
134	A review of graphene-based films for heat dissipation. 2021 , 36, 897-908	1
133	Graphene nanoplatelets/epoxy nanocomposites: A review on functionalization, characterization techniques, properties, and applications. 073168442110492	3
132	Recent advances in 2D graphene reinforced metal matrix composites. 2021 , 33,	
131	A spiral graphene framework containing highly ordered graphene microtubes for polymer composites with superior through-plane thermal conductivity.	2
130	Process in preparation of metal-catalyzed graphene. 2013 , 62, 028201	5
129	Thermal Transport in Micro- and Nanoscale Systems. 2017 , 1-51	1
128	Aluminum Effect as Additive Material in Expanded Graphite/Sand Composite for High Thermal Conductivity. 2017 , 27, 422-430	
127	Anisotropic thermal conductivity of aligned GNPs/polymer composites: a finite element approach. 2018 ,	
126	Introduction. 2019 , 1-9	
125	Specifics of Thermal Transport in Graphene Composites: Effect of Lateral Dimensions of Graphene Fillers. 2021 ,	9

124	Effect of esterification crosslinking on interfacial heat transfer between graphene and phase change material. 2021 , 28, 1121-1135	0
123	Atomistic explorations of mechanisms dictating the shear thinning behavior and 3D printability of graphene flake infused epoxy inks. 2021 , 23, 24634-24645	2
122	Interfacial Mechanics Between van der Waals Materials. 2020 , 97-134	
121	Graphene-based thermal nanocomposites: fundamentals and applications. 2020 , 271-303	
120	Comparative analysis of thermal conductivity of polymer composites with random and segregated distribution of single and hybrid nanocarbon filler. 2020 , 27,	
119	A comprehensive review on thermophysical properties and solar thermal applications of organic nano composite phase change materials. 2021 , 45, 103415	2
118	High Thermal Conductivity of Plasticine-Based Nanocomposites Developed Using Simple Fabrication for Heat Management in Electronic Devices. 2100662	
117	Performance evaluation of PV-TEC coupling device for power production with improved hybrid nanocarbon based thermal material interface. 2021 , 7, 6868-6875	1
116	Harnessing light to create functional, three-dimensional polymeric materials: multitasking initiation systems as the critical key to success. 2021 , 48, 102447	3
115	Epoxy Molecular Structure Alteration in Graphene-Epoxy Nanocomposites: Loading Effects. 2021 , 459-483	0
114	Graphene and Carbon Nanotubes for Electronics Nanopackaging. 2021 , 1-1	5
113	Multifunctional polymeric nanocomposites with graphene. 2022 , 25-44	
112	Carbon fiber reinforced elastomeric thermal interface materials for spacecraft. 2022 , 187, 432-438	3
111	Exploring the mechanical properties of two-dimensional carbon-nitride polymer nanocomposites by molecular dynamics simulations. 2021 , 115004	0
110	Morphology, electrical conductivity, and rheology of latex-based polymer/nanocarbon nanocomposites. 2021 , 33, 357-366	2
109	Improved Thermal Properties of Three-Dimensional Graphene Network Filled Polymer Composites. 1	0
108	Flexible and Ultrahigh Through-Plane Thermally-Conductive Polyethylene/Boron Nitride Nanocomposite Films. 2100695	0
107	Thermal properties of phase change materials reinforced with multi-dimensional carbon nanomaterials. 2021 , 183, 122166	0

106	Effect of graphene filler oxidation on the thermal destruction of epoxy-graphene composites. 2021 , 13(28), 166-174	
105	Enhanced Thermal Conducting Behavior of Pressurized Graphene-Silver Flake Composites.. 2022 ,	1
104	Engineering of polymer-based materials for thermal management solutions. 2022 , 29, 101048	2
103	A protocol to further improve the thermal conductivity of silicone-matrix thermal interface material with nano-fillers. 2022 , 708, 179136	1
102	Flexible conductive gasket based on Eucommia ulmoides gum and carbon fillers. 2022 , 176, 114347	1
101	Wood-Derived, Vertically Aligned, and Densely Interconnected 3D SiC Frameworks for Anisotropically Highly Thermoconductive Polymer Composites.. 2022 , e2103592	2
100	Recent progress in polymer/two-dimensional nanosheets composites with novel performances. 2022 , 126, 101505	12
99	Thermal conductivity of Aluminum/Graphene metal-matrix composites: From the thermal boundary conductance to thermal regulation. 2022 , 30, 103147	1
98	High conductivity thermoelectric insulation composite silicone rubber prepared by carbon nanotubes and silicon carbide composite filler.	0
97	Enzymolysis-treated wood-derived hierarchical porous carbon for fluorescence-functionalized phase change materials. 2022 , 234, 109735	4
96	The Synergistic Effect of a Hybrid Filler Based on Graphene Nanoplates and Multiwalled Nanotubes for Increasing the Thermal Conductivity of an Epoxy Composite. 2021 , 47, 364-367	1
95	Phase Change Materials with Enhanced Thermal Conductivity and Heat Propagation in Them. 2022 , 2, 18-42	
94	Thermal conductivity and mechanical durability of graphene composite films containing polymer-filled connected multilayer graphene patterns. 2022 ,	0
93	Chloroform-Assisted Rapid Growth of Vertical Graphene Array and Its Application in Thermal Interface Materials.. 2022 , e2200737	3
92	Thermal Percolation in Well-Defined Nanocomposite Thin Films.. 2022 ,	2
91	Chemically Edge-Carboxylated Graphene Enhances the Thermal Conductivity of Polyetherimide-Graphene Nanocomposites.. 2022 ,	2
90	Effect of graphene bending in dynamic compounding process on the thermal conductivity of graphene and its composites. 2022 , 215, 110498	1
89	Multifunctional electromagnetic interference shielding 3D reduced graphene oxide/vertical edge-rich graphene/epoxy nanocomposites with remarkable thermal management performance. 2022 , 222, 109407	2

88	Fabrication and pilot-production of ultrahigh thermal conductivity vertical graphite-silicone pads with very low cost. 2022 , 194, 72-80	0
87	Controlling anisotropic thermal properties of graphene aerogel by compressive strain.. 2022 , 619, 369-376	2
86	Epoxy/hybrid graphene-copper nanocomposite materials with enhanced thermal conductivity.	0
85	High thermal conductivity in diamond induced carbon fiber-liquid metal mixtures. 2022 , 238, 109902	0
84	Ultra-high thermal conductive epoxy-based copper/graphite nanoplatelets materials for heat management application. 2022 , 224, 109454	2
83	Polymer-Hybrid Nanocomposites Films and Fiber-Based Nanoproducts. 2022 , 143-158	
82	Superior effect of edge relative to basal plane functionalization of graphene in enhancing polymer-graphene nanocomposite thermal conductivity [A combined molecular dynamics and Green's functions study.	1
81	Construction of a 3D interconnected boron nitride nanosheets in a PDMS matrix for high thermal conductivity and high deformability. 2022 , 109528	2
80	Carbon Nanomaterials-Polymer Composites in Perovskite Solar Cells: Preparation, Properties and Applications.	2
79	High-strength, flexible and superhydrophobic graphene/aramid nanofiber nanocomposite films for electromagnetic interference shielding application. 2022 ,	0
78	HiPIMS Obtained Carbon Nano-coatings on Copper Foil and Their Thermal Conductivity. 2022 , 128565	0
77	Highly Active Palladium-Decorated Reduced Graphene Oxides for Heterogeneous Catalysis and Electrocatalysis: Hydrogen Production from Formaldehyde and Electrochemical Formaldehyde Detection. 2022 , 12, 1890	0
76	Large Enhancement in Thermal Conductivity of Solvent-Cast Expanded Graphite/Polyetherimide Composites. 2022 , 12, 1877	0
75	Mechanical, Thermal and Electrical Properties of Epoxy Nanocomposites with Amine-Functionalized Reduced Graphene Oxide via Plasma Treatment. 2022 , 6, 153	
74	0D surface modification and 3D silicon carbide network construction for improving the thermal conductivity of epoxy resins. 2022 ,	0
73	Epoxy Nanocomposites with Graphene Derivatives. 133-167	
72	Fabrication of copper powder hybrid supported fillers with interconnected 1D/2D/3D nanostructures for enhanced thermal interface materials properties.	0
71	Efficient Preconstruction of Three-Dimensional Graphene Networks for Thermally Conductive Polymer Composites. 2022 , 14,	3

70	Interconnected MXene/Graphene Network Constructed by Soft Template for Multi-Performance Improvement of Polymer Composites. 2022 , 14,	1
69	Preparation of thermally conductive flexible liquid silicone rubber composites by magnetic field-induced self-assembly of Fe ₃ O ₄ @C. 2022 , 139,	
68	Epoxy/graphite nanocomposites as dielectric resins with enhanced thermal conductivity.	
67	Highly conductive nanographite/ultra-high-molecular-weight polyethylene composite. 2022 , 15, 100298	0
66	Hyperbolic Graphene Framework with Optimum Efficiency for Conductive Composites.	3
65	Fabrication and properties of thermally conductive adhesive tapes containing multilayer graphene patterns. 2022 ,	1
64	Tunability of the thermal diffusivity of cellulose nanofibril films by addition of multivalent metal ions. 2022 , 297, 120010	
63	Thermal Resistance of Open-Cell Metal Foam with Thermal Interface Materials (TIM). 2022 , 119336	0
62	Thermal conductive composites for FDM 3D printing: A review, opportunities and obstacles, future directions. 2022 , 83, 667-677	0
61	Crystallization kinetics of melt-mixed 3D hierarchical graphene/polypropylene nanocomposites at processing-relevant cooling rates. 2022 , 247, 110287	0
60	In-Situ Ultrasonic Inspection of Thickness and Morphology of Thermal Interface Material in Multilayer Structure Using Modified Minimum Entropy Deconvolution. 2022 , 1-1	0
59	A highly orientational architecture formed by covalently bonded graphene to achieve high through-plane thermal conductivity of polymer composites. 2022 , 14, 11171-11178	0
58	Higher alcohols synthesis from syngas and ethanol over KCoMoS ₂ catalysts supported on graphene nanosheets. 1-20	0
57	Asymptotic analysis for non-local problems in composites with different imperfect contact conditions. 1-30	0
56	Recent Advances in Thermal Interface Materials for Thermal Management of High-Power Electronics. 2022 , 12, 3365	3
55	Building efficient interfacial property with graphene heterogeneous interface. 2022 , 107782	0
54	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. 2022 , 109759	0
53	Effect of lateral size and loading ratio of expanded graphite on mechanical and thermal properties of nanocellulose composites. 2022 , 33, 104549	0

- 52 Multi-scale hybrid spherical graphite composites: a light weight thermal interface material with high thermal conductivity and simple processing technology. **2022**, 12, 29414-29422 ○
- 51 Review on the Phase Change Materials in Wood for Thermal Regulative Wood-Based Products. **2022**, 13, 1622 ○
- 50 Developing Thermal Regulating and Electromagnetic Shielding Nacre-Inspired Graphene-Conjugated Conducting Polymer Film via Apparent Wiedemann-Franz Law. **2022**, 14, 49199-49211 ○
- 49 Comparison of Carbon-Nanoparticle-Filled Poly(Butylene Succinate-co-Adipate) Nanocomposites for Electromagnetic Applications. **2022**, 12, 3671 2
- 48 Bioinspired, anisotropically highly thermoconductive silicon carbide/epoxy composite based on a nacre-mimetic architecture. ○
- 47 MXene and functionalized graphene hybridized nanoflakes based silicone-oil nanofluids as new class of media for micro-cooling application. **2022**, ○ 1
- 46 Preparation of Graphene-Based Hydrogel Thermal Interface Materials with Excellent Heat Dissipation and Mechanical Properties. 2200332 ○
- 45 Rational design of graphene structures for preparing high-performance thermal interface materials: A mini review. **2022**, 65, ○
- 44 Aluminium-graphene metal matrix nanocomposites: Modelling, analysis, and simulation approach to estimate mechanical properties. **2022**, ○
- 43 Unified modeling and experimental realization of electrical and thermal percolation in polymer composites. **2022**, 9, 041403 ○
- 42 Mussel inspired modification of nanodiamonds for thermally conductive, and electrically insulating rubber composites. **2022**, 130, 109457 ○
- 41 Thermally conductive 2D filler orientation control in polymer using thermophoresis. **2023**, 117, 107838 ○
- 40 Cancer Diagnosis Using Terahertz-Graphene-Metasurface-Based Biosensor with Dual-Resonance Response. **2022**, 12, 3889 ○
- 39 Efficient modulation of thermal transport in two-dimensional materials for thermal management in device applications. ○
- 38 Surfactant molecular design on heat transfer enhancement. **2023**, ○
- 37 Vanillin-based liquid crystalline polyimine thermosets and their composites for recyclable thermal management application. **2023**, 250, 110462 ○
- 36 Templating strategies for 3D-structured thermally conductive composites: Recent advances and thermal energy applications. **2023**, 133, 101054 ○
- 35 Graphene Thermal Interface Materials: State-of-the-Art and Application Prospects. **2022**, 3, 169-181 2

- 34 Fluorine-Containing Flow Modifier for BN/PPS Composites Enabled by Low Surface Energy. **2022**, 27, 8066 ○
- 33 BN-PVDF/rGO-PVDF Laminate Nanocomposites for Energy Storage Applications. **2022**, 12, 4492 1
- 32 Pyrene-Functionalized Alkali Lignin to Disperse Hydroxylated Boron Nitride Nanosheets in Cellulose Nanofibers for Thermal Management. ○
- 31 Application of HTS in Material Preparation and New Devices. **2023**, 145-192 ○
- 30 An experimental study on pool boiling of R-600a on Cu@Gr composite-coated patterned surfaces. **2023**, 45, ○
- 29 Polymer and Composite Materials in Two-Phase Passive Thermal Management Systems: A Review. **2023**, 16, 893 ○
- 28 Conducting polymer/carbonaceous nanocomposite systems for antistatic applications. **2023**, 165-186 ○
- 27 Raman spectroscopy and molecular dynamics simulation studies of graphitic nanomaterials. **2023**, 363-399 ○
- 26 Recycling waste sources into nanocomposites of graphene materials: Overview from an energy-focused perspective. **2023**, 12, ○
- 25 Effects of Chain Length, Stretching, and Molecular Groups on the Thermal Conductivity of Single Crosslinked Epoxy Resin Chains. ○
- 24 Special additives to unsaturated polyester. **2023**, 43-57 ○
- 23 Enhanced electrically and thermally conductive free-standing graphene films with two-dimensional copper sheets as the catalyst and bridge. ○
- 22 Nerve-Fiber-Inspired Construction of 3D Graphene Tracks Supported by Wood Fibers for Multifunctional Biocomposite with Metal-Level Thermal Conductivity. 2213274 ○
- 21 Compliance-tunable thermal interface materials based on vertically oriented carbon fiber arrays for high-performance thermal management. **2023**, 234, 109948 ○
- 20 Effects of cell anisotropy on conductive and radiative thermal transport in polymeric foam insulation. **2023**, 127473 ○
- 19 Boron nitride nanosheet reinforced polyethylene nanocomposite film for high-performance hot-melt adhesive type thermal interfacial material. **2023**, 275, 125934 ○
- 18 Magnetic filler alignment of single graphene nanoplatelets modified by Fe₃O₄ to improve the thermal conductivity of the epoxy composite. **2023**, 122, 68-78 ○
- 17 Bioinspired, anisotropically highly thermoconductive silicon carbide/epoxy composite based on a nacre-mimetic architecture. **2023**, 170, 107538 ○

- 16 Cross Network Composite Aerogel Towards Robust and Fire-Resist Thermal Insulation Material. 2201443 ○
- 15 Improved Electrical and Thermal Conductivities of Graphene/Carbon Nanotube Composite Film as an Advanced Thermal Interface Material. **2023**, 16, 1378 ○
- 14 Thermoset/graphene polymer composites: A review of processing and properties. ○
- 13 Liquid metal-based elastomer heat conduction enhancement enabled by stretching. **2023**, 43, 102801 ○
- 12 A review on interfacial structure optimization and its mechanism on the properties of carbon reinforced metal-matrix composites. **2023**, 30, 543-583 ○
- 11 A Hierarchically Structured Graphene/Ag Nanowires Paper as Thermal Interface Material. **2023**, 13, 793 1
- 10 Building efficient thermal transport at graphene/polypropylene interfaces by non-covalent functionalized graphene. **2023**, 469, 128766 ○
- 9 Vertical Array of Graphite Oxide Liquid Crystal by Microwire Shearing for Highly Thermally Conductive Composites. ○
- 8 Homogenization of nonlinear hyperbolic problem with a dynamical boundary condition. **2023**, 8, 12093-12108 ○
- 7 Fewer Dimensions for Higher Thermal Performance: A Review on 2D Nanofluids. **2023**, 13, 4070 ○
- 6 Nano Engineered Paraffin-Based Phase Change Material for Building Thermal Management. **2023**, 13, 900 ○
- 5 Terahertz-Graphene-Metasurface Based Biosensor with Dual-Resonance Response as a tool for cancer detection using cell specific frequency. **2023**, ○
- 4 Preparation and Application of Flexible Ethylene Vinyl Acetate Adhesive Composites by Ultrasonic-Assisted Forced Infiltration. ○
- 3 An Analysis for Thermal Conductivity of Graphene/Polymer Nanocomposites. **2023**, 684-690 ○
- 2 High Thermal Conductivity Polymer Composites Fabrication through Conventional and 3D Printing Processes: State-of-the-Art and Future Trends. ○
- 1 Significantly thermally conductive cellulose composite film with graphene/boron nitride heterojunction structure achieved by combustion synthesis. **2023**, 40, 101596 ○