Xingxiang Zhang

List of Publications by Year in Descending Order

162 papers	3,735 citations	32 h-index	54 g-index
163 ext. papers	4,513 ext. citations	5.3 avg, IF	5.73 L-index

#	Paper	IF	Citations
162	Impact-resistant membranes from electrospun fibers with a shear-thickening core. *Materials Chemistry and Physics*, **2022**, 277, 125478	4.4	2
161	Facile fabrication of high-performance PA66/MWNT nanocomposite fibers. *Colloid and Polymer Science*, **2022**, 300, 509	2.4	
160	Flexible thermoelectric nanodevices based on three-dimensional networks of poly(3,4-ethylenedioxythiophene) nanowires and graphene. *High Performance Polymers*, **2021**, 33, 657-664	1.6	
159	Fabrication and Characterization of Poly(n-alkyl acrylic) Ester Shape-Stable Phase-Change Materials Based on UV Curing. *ACS Applied Energy Materials*, **2021**, 4, 3358-3368	6.1	1
158	Influences of PVA modification on performance of microencapsulated reversible thermochromic phase change materials for energy storage application. *Solar Energy Materials and Solar Cells*, **2021**, 222, 110938	6.4	0
157	Cellulose-based phase change fibres for thermal energy storage and management applications. *Chemical Engineering Journal*, **2021**, 412, 128596	14.7	7
156	Fabrication and Characterization of Electrospun Poly(acrylonitrile-co-vinylidene Chloride) Copolymer/Poly(n-tetradecyl acrylate-co-n-hexadecyl Acrylate) Sheath/Core Nanofiber-wrapped Thermo-regulated Filaments. *ACS Applied Energy Materials*, **2021**, 4, 5359-5366	6.1	1
155	Synthesis and photochromic behavior of comb-like acrylate polymer nanoparticle containing spiropyran. *Dyes and Pigments*, **2021**, 189, 109237	4.6	3
154	Research on long-chain alkanol etherified melamine-formaldehyde resin MicroPCMs for energy storage. *Energy*, **2021**, 214, 119029	7.9	2
153	Synthesis and characterization of hydrophobic reversible thermochromic MicroPCMs with amino resins shell for thermal energy storage. *Energy and Buildings*, **2021**, 230, 110528	7	5
152	Enhancement of physical and mechanical properties of polyamide 66 fibers using polysiloxane-functionalized multi-walled carbon nanotubes. *Journal of Applied Polymer Science*, **2021**, 138, 50170	2.9	2
151	Preparation of 3D crimped ZnO/PAN hybrid nanofiber mats with photocatalytic activity and antibacterial properties by blow-spinning. *Journal of Applied Polymer Science*, **2021**, 138, 49908	2.9	4
150	Reversible photochromic energy storage polyurea microcapsules via in-situ polymerization. *Energy*, **2021**, 219, 119630	7.9	13
149	Intelligent adjustment of light-to-thermal energy conversion efficiency of thermo-regulated fabric containing reversible thermochromic MicroPCMs. *Chemical Engineering Journal*, **2021**, 408, 127276	14.7	15
148	Synthesis of □Fe2O3 double-layer hollow spheres with carbon coating using carbonaceous sphere templates for lithium ion battery anodes. *Journal of Solid State Electrochemistry*, **2021**, 25, 267-278	2.6	1
147	Fabrication of High Performance PET/TLCP Fibers through the Synergistic Interfacial Enhancement and Compatibilization of Functional 1D and 2D Carbon Nanomaterials. *Macromolecular Materials and Engineering*, **2021**, 306, 2000661	3.9	2
146	Fabrication and performance of shape-stable phase change materials based on epoxy group crosslinking. *Journal of Applied Polymer Science*, **2021**, 138, 50681	2.9	

145	Suppressing Thermal Negative Effect and Maintaining High-Temperature Steady Electrical Performance of Triboelectric Nanogenerators by Employing Phase Change Material. *ACS Applied Materials & Interfaces*, **2021**, 13, 41657-41668	9.5	2
144	Preparation of Polyethylene Terephthalate/Polyketone/Graphene Oxide Composite Fibers: Implications for High-Performance Polymer Composites Modified with Carbon Nanomaterials. *ACS Applied Nano Materials*, **2021**, 4, 9768-9778	5.6	0
143	Design and synthesis of microcapsules with cross-linking network supporting core for supercooling degree regulation. *Energy and Buildings*, **2021**, 253, 111437	7	1
142	Polyamide 66 fibers synergistically reinforced with functionalized graphene and multi-walled carbon nanotubes. *Materials Chemistry and Physics*, **2021**, 271, 124898	4.4	1
141	Synthesis and characterization of microencapsulated phase change materials with chitosan-based polyurethane shell. *Carbohydrate Polymers*, **2021**, 273, 118629	10.3	3
140	PVDF microspheres@PLLA nanofibers-based hybrid tribo/piezoelectric nanogenerator with excellent electrical output properties. *Materials Advances*, **2021**, 2, 6011-6019	3.3	2
139	Thermal energy regulated and thermochromic composite film with temperature-sensitive breathable stomata. *Journal of Materials Science*, **2020**, 55, 12921-12939	4.3	3
138	Enhancing solar-thermal-electric energy conversion based on m-PEGMA/GO synergistic phase change aerogels. *Journal of Materials Chemistry A*, **2020**, 8, 13207-13217	13	19
137	Poly-l-Lactic Acid/Graphene Electrospun Composite Nanofibers for Wearable Sensors. *Energy Technology*, **2020**, 8, 1901252	3.5	13
136	Fabrication and characterization of hexadecyl acrylate cross-linked phase change microspheres. *E-Polymers*, **2020**, 20, 69-75	2.7	0
135	Microencapsulation of oil soluble polyaspartic acid ester and isophorone diisocyanate and their application in self-healing anticorrosive epoxy resin. *Journal of Applied Polymer Science*, **2020**, 137, 48478	2.9	7
134	Green fabrication of functionalized graphene via one-step method and its reinforcement for polyamide 66 fibers. *Materials Chemistry and Physics*, **2020**, 240, 122288	4.4	16
133	Superhydrophobic Covalent Organic Frameworks Prepared via Pore Surface Modifications for Functional Coatings under Harsh Conditions. *ACS Applied Materials & Interfaces*, **2020**, 12, 2926-2934	9.5	30
132	Properties of PEDOT nanowire/Te nanowire nanocomposites and fabrication of a flexible thermoelectric generator.. *RSC Advances*, **2020**, 10, 33965-33971	3.7	0
131	Preparation, Morphology, and Thermal Performance of Microencapsulated Phase Change Materials with a MF/SiO2 Composite Shell. *Energy & Fuels*, **2020**, 34, 16819-16830	4.1	5
130	Mace-like carbon fibers@Fe3O4@carbon composites as anode materials for lithium-ion batteries. *Ionics*, **2020**, 26, 5923-5934	2.7	3
129	Fabrication of high-strength PET fibers modified with graphene oxide of varying lateral size. *Journal of Materials Science*, **2020**, 55, 8940-8953	4.3	10
128	Electrostatic Assembly of a Titanium Dioxide@Hydrophilic Poly(phenylene sulfide) Porous Membrane with Enhanced Wetting Selectivity for Separation of Strongly Corrosive Oil-Water Emulsions. *ACS Applied Materials & Interfaces*, **2019**, 11, 35479-35487	9.5	35

127	Multiresponsive Shape-Stabilized Hexadecyl Acrylate-Grafted Graphene as a Phase Change Material with Enhanced Thermal and Electrical Conductivities. *ACS Applied Materials & Interfaces*, **2019**, 11, 8982-8991	9.5	30
126	Preparation of MnO2@P(AN-VDC)/AC composite fibers for high capacity formaldehyde removal. *Materials Letters*, **2019**, 242, 51-54	3.3	4
125	Design of a Janus F-TiO@PPS Porous Membrane with Asymmetric Wettability for Switchable Oil/Water Separation. *ACS Applied Materials & Interfaces*, **2019**, 11, 22408-22418	9.5	68
124	Adhesive-free in situ synthesis of a coral-like titanium□dioxide@poly(phenylene sulfide) microporous membrane for visible-light photocatalysis. *Chemical Engineering Journal*, **2019**, 374, 1382-1393	14.7	29
123	Polyamide 66 and amino-functionalized multi-walled carbon nanotube composites and their melt-spun fibers. *Journal of Materials Science*, **2019**, 54, 11056-11068	4.3	8
122	Synthesis and electrochemical properties of □Fe2O3 porous microrods as anode for lithium-ion batteries. *Journal of Alloys and Compounds*, **2019**, 794, 333-340	5.7	12
121	Facile flexible reversible thermochromic membranes based on micro/nanoencapsulated phase change materials for wearable temperature sensor. *Applied Energy*, **2019**, 247, 615-629	10.7	47
120	Elucidating synthesis of noble metal nanoparticles/graphene oxide in free-scavenger □rradiation. *Current Applied Physics*, **2019**, 19, 780-786	2.6	6
119	Radiation resistance of carbon fiber-reinforced epoxy composites optimized synergistically by carbon nanotubes in interface area/matrix. *Composites Part B: Engineering*, **2019**, 172, 447-457	10	18
118	Lightweight sandwich fiber-welded foam-like nonwoven fabrics/graphene composites for electromagnetic shielding. *Materials Chemistry and Physics*, **2019**, 232, 246-253	4.4	8
117	Functionalized carbon nanotubes as phase change materials with enhanced thermal, electrical conductivity, light-to-thermal, and electro-to-thermal performances. *Carbon*, **2019**, 149, 263-272	10.4	43
116	Fiber-welded ciliated-like nonwoven fabric nano-composite multiscale architectures for superior mechanical and electromagnetic shielding behaviors. *Composites Part A: Applied Science and Manufacturing*, **2019**, 121, 321-329	8.4	14
115	Gamma irradiation and microemulsion assisted synthesis of monodisperse flower-like platinum-gold nanoparticles/reduced graphene oxide nanocomposites for ultrasensitive detection of carcinoembryonic antigen. *Sensors and Actuators B: Chemical*, **2019**, 287, 267-277	8.5	31
114	Preparation and properties of shape-stabilized phase change material cellulose benzoate-g-polyoxyethylene (2) hexadecyl ether with potential for thermal energy storage. *Textile Reseach Journal*, **2019**, 89, 1512-1521	1.7	0
113	Free-standing dual-network red phosphorus@porous multichannel carbon nanofibers/carbon nanotubes as a stable anode for lithium-ion batteries. *Electrochimica Acta*, **2019**, 322, 134696	6.7	19
112	Reversible Photochromic Nanofiber Membrane Containing Comb-Like Poly(octadecyl acrylate) Nanoparticles Used for Ultraviolet Intensity Indicator. *Macromolecular Materials and Engineering*, **2019**, 304, 1900299	3.9	8
111	Synthesis and properties of self-assembled ultralong core-shell Si3N4/SiO2 nanowires by catalyst-free technique. *Ceramics International*, **2019**, 45, 20040-20045	5.1	8
110	Amphiphilic cellulose for enhancing the antifouling and separation performances of poly (acrylonitrile-co-methyl acrylate) ultrafiltration membrane. *Journal of Membrane Science*, **2019**, 591, 117276	9.6	12

109	Facile Fabrication of PA66/GO/MWNTs-COOH Nanocomposites and Their Fibers. *Fibers*, **2019**, 7, 69	3.7	6
108	Fabrication and Characterization of Novel Shape-Stabilized Phase Change Materials Based on P(TDA--HDA)/GO Composites. *Polymers*, **2019**, 11,	4.5	2
107	Electromagnetic shielding of ultrathin, lightweight and strong nonwoven composites decorated by a bandage-style interlaced layer electropolymerized with polyaniline. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 20420-20431	2.1	4
106	Fabrication and characterization of conductive microcapsule containing phase change material. *E-Polymers*, **2019**, 19, 519-526	2.7	1
105	Catalyst-free large-scale synthesis of composite SiC@SiO2/carbon nanofiber mats by blow-spinning. *Journal of Materials Chemistry C*, **2019**, 7, 15233-15242	7.1	9
104	Highly Efficient Purification of Multicomponent Wastewater by Electrospinning Kidney-Bean-Skin-like Porous H-PPAN/rGO--PAO@Ag/Ag Composite Nanofibrous Membranes. *ACS Applied Materials & Interfaces*, **2019**, 11, 46920-46929	9.5	12
103	Enhanced Thermal-to-Flexible Phase Change Materials Based on Cellulose/Modified Graphene Composites for Thermal Management of Solar Energy. *ACS Applied Materials & Interfaces*, **2019**, 11, 45832-45843	9.5	52
102	Bioinspired Superwettable Covalent Organic Framework Nanofibrous Composite Membrane with a Spindle-Knotted Structure for Highly Efficient Oil/Water Emulsion Separation. *Langmuir*, **2019**, 35, 16545-16554	4	25
101	SMA-Assisted Exfoliation of Graphite by Microfluidization for Efficient and Large-Scale Production of High-Quality Graphene. *Nanomaterials*, **2019**, 9,	5.4	12
100	Bead nano-necklace spheres on 3D carbon nanotube scaffolds for high-performance electromagnetic-interference shielding. *Chemical Engineering Journal*, **2019**, 360, 1241-1246	14.7	23
99	Direct Liquid Phase Exfoliation of Graphite to Produce Few-Layer Graphene by Microfluidization. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 2078-2086	1.3	13
98	Reversible thermochromic microencapsulated phase change materials for thermal energy storage application in thermal protective clothing. *Applied Energy*, **2018**, 217, 281-294	10.7	119
97	Low-temperature nanowelding ultrathin silver nanowire sandwiched between polydopamine-functionalized graphene and conjugated polymer for highly stable and flexible transparent electrodes. *Chemical Engineering Journal*, **2018**, 345, 260-270	14.7	42
96	The continuous flexible three dimensional curly carbon-based hybrid nanofibers with good resilience and electrochemical performance. *Materials and Design*, **2018**, 147, 114-121	8.1	3
95	Enhanced sheet-sheet welding and interfacial wettability of 3D graphene networks as radiation protection in gamma-irradiated epoxy composites. *Composites Science and Technology*, **2018**, 157, 57-66	8.6	26
94	Fabrication and characterization of diethylene glycol hexadecyl ether-grafted graphene oxide as a form-stable phase change material. *Thermochimica Acta*, **2018**, 661, 166-173	2.9	8
93	Preparation of bi-continuous poly(acrylonitrile-co-methyl acrylate) microporous membranes by a thermally induced phase separation method. *Journal of Applied Polymer Science*, **2018**, 135, 46173	2.9	10
92	3D graphene foams/epoxy composites with double-sided binder polyaniline interlayers for maintaining excellent electrical conductivities and mechanical properties. *Composites Part A: Applied Science and Manufacturing*, **2018**, 110, 246-257	8.4	26

91	Fabrication and characterization of core□shell novel PU microcapsule using TDI trimer for release system. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 550, 138-144	5.1	14
90	Homogeneous synthesis of cellulose acrylate-g-poly (n-alkyl acrylate) solid-solid phase change materials via free radical polymerization. *Carbohydrate Polymers*, **2018**, 193, 129-136	10.3	21
89	Thermoelectric behavior of PEDOT:PSS/CNT/graphene composites. *Journal of Polymer Engineering*, **2018**, 38, 381-389	1.4	9
88	Superhydrophilic and underwater superoleophobic poly (acrylonitrile-co-methyl acrylate) membrane for highly efficient separation of oil-in-water emulsions. *Journal of Membrane Science*, **2018**, 564, 712-721	9.6	36
87	Chitosan composite microencapsulated comb-like polymeric phase change material via coacervation microencapsulation. *Carbohydrate Polymers*, **2018**, 200, 602-610	10.3	32
86	Microencapsulated Comb-Like Polymeric Solid-Solid Phase Change Materials via In-Situ Polymerization. *Polymers*, **2018**, 10,	4.5	8
85	Poly(mono/diethylene glycol -tetradecyl ether vinyl ether)s with Various Molecular Weights as Phase Change Materials. *Polymers*, **2018**, 10,	4.5	1
84	Novel Dual-Component Microencapsulated Hydrophobic Amine and Microencapsulated Isocyanate Used for Self-Healing Anti-Corrosion Coating. *Polymers*, **2018**, 10,	4.5	30
83	Effects of Fatty Acid Anhydride on the Structure and Thermal Properties of Cellulose-g-Polyoxyethylene (2) Hexadecyl Ether. *Polymers*, **2018**, 10,	4.5	2
82	Fabrication of a PPS Microporous Membrane for Efficient Water-in-Oil Emulsion Separation. *Langmuir*, **2018**, 34, 10580-10590	4	31
81	Fabrication and Performance of Composite Microencapsulated Phase Change Materials with Palmitic Acid Ethyl Ester as Core. *Polymers*, **2018**, 10,	4.5	4
80	Biodegradable Transparent Substrate Based on Edible Starch-Chitosan Embedded with Nature-Inspired Three-Dimensionally Interconnected Conductive Nanocomposites for Wearable Green Electronics. *ACS Applied Materials & Interfaces*, **2018**, 10, 23037-23047	9.5	43
79	Microencapsulation of energy conversion photochromic materials with epoxy resin shell by interfacial polymerization. *IOP Conference Series: Materials Science and Engineering*, **2018**, 394, 022009	0.4	
78	Preparation and Properties of Narrowly Dispersed Polyurethane Nanocapsules Containing Essential Oil via Phase Inversion Emulsification. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 10799-10807	5.7	10
77	Facile preparation and thermoelectric properties of PEDOT nanowires/Bi2Te3 nanocomposites. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 17367-17373	2.1	3
76	Properties and Fabrication of PA66/Surface-Modified Multi-Walled Nanotubes Composite Fibers by Ball Milling and Melt-Spinning. *Polymers*, **2018**, 10,	4.5	14
75	Design and fabrication of reversible thermochromic microencapsulated phase change materials for thermal energy storage and its antibacterial activity. *Energy*, **2018**, 159, 857-869	7.9	43
74	Preparation and properties of polyaniline/viscose fiber adducts. *Polymer Composites*, **2017**, 38, 782-788	3	2

73	Fabrication and properties of graphene oxide-grafted-poly(hexadecyl acrylate) as a solid-solid phase change material. *Composites Science and Technology*, **2017**, 149, 262-268	8.6	38
72	Thermo-responsive PVDF/PSMA composite membranes with micro/nanoscale hierarchical structures for oil/water emulsion separation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 516, 305-316	5.1	31
71	Microencapsulated Phase Change Materials in Solar-Thermal Conversion Systems: Understanding Geometry-Dependent Heating Efficiency and System Reliability. *ACS Nano*, **2017**, 11, 721-729	16.7	78
70	Microstructure regulation of microencapsulated bio-based n-dodecanol as phase change materials via in situ polymerization. *New Journal of Chemistry*, **2017**, 41, 14696-14707	3.6	19
69	Effects of Polyvinyl Alcohol Modification on Microstructure, Thermal Properties and Impermeability of Microencapsulated n-Dodecanol as Phase Change Material. *ChemistrySelect*, **2017**, 2, 9369-9376	1.8	5
68	Liquid phase exfoliation of graphite into few-layer graphene by sonication and microfluidization. *Materials Express*, **2017**, 7, 491-499	1.3	25
67	Microencapsulation and Morphological Characterization of Renewable Microencapsulated Phase-Change Materials with Cellulose Diacetate Shell. *ChemistrySelect*, **2017**, 2, 5917-5923	1.8	1
66	Fabrication and characterization of novel shape-stabilized synergistic phase change materials based on PHDA/GO composites. *Energy*, **2017**, 138, 157-166	7.9	36
65	Effects of oil-soluble etherified melamine-formaldehyde prepolymers on in situ microencapsulation and macroencapsulation of n-dodecanol. *New Journal of Chemistry*, **2017**, 41, 9424-9437	3.6	18
64	Fabrication and wet spinning of a fully aromatic meta-polybenzimidazole. *High Performance Polymers*, **2016**, 28, 288-295	1.6	4
63	Thermo-regulated sheath/core submicron fiber with poly(diethylene glycol hexadecyl ether acrylate) as a core. *Textile Reseach Journal*, **2016**, 86, 493-501	1.7	17
62	Preparation of polyaniline-coated polyacrylonitrile fiber mats and their application to Cr(VI) removal. *Synthetic Metals*, **2016**, 222, 255-266	3.6	24
61	A novel PVDF/graphene composite membrane based on electrospun nanofibrous film for oil/water emulsion separation. *Composites Communications*, **2016**, 2, 5-8	6.7	27
60	Synthesis and characterization of cellulose-g-polyoxyethylene (2) hexadecyl ether solid–solid phase change materials. *Cellulose*, **2016**, 23, 1663-1674	5.5	17
59	Design, controlled fabrication and characterization of narrow-disperse macrocapsules containing Micro/NanoPCMs. *Materials and Design*, **2016**, 99, 225-234	8.1	20
58	Graphene-Based Film Reduced by a Chemical and Thermal Synergy Method as a Transparent Conductive Electrode. *Science of Advanced Materials*, **2016**, 8, 1066-1073	2.3	5
57	Structure and properties of poly(acrylonitrile-co-methyl acrylate) membranes prepared via thermally induced phase separation. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	3
56	Preparation of poly(acrylonitrile-methacrylate) membrane via thermally induced phase separation: effects of MA with different feeding molar ratios. *Desalination and Water Treatment*, **2016**, 1-17		2

55	Photoinduced Microencapsulation of Microcapsules Containing n-Octadecane with P(APUA) and P(AMA) Shell. *Materials Science Forum*, **2016**, 852, 1182-1187	0.4	1
54	Effect of N-isopropylacrylamide on the preparation and properties of microencapsulated phase change materials. *Energy*, **2016**, 106, 221-230	7.9	19
53	Continuously hierarchical nanoporous graphene film for flexible solid-state supercapacitors with excellent performance. *Nano Energy*, **2016**, 24, 158-164	17.1	47
52	Mussel-Inspired Polydopamine-Functionalized Graphene as a Conductive Adhesion Promoter and Protective Layer for Silver Nanowire Transparent Electrodes. *Langmuir*, **2016**, 32, 5365-72	4	48
51	Fabrication and properties of poly(polyethylene glycol n-alkyl ether vinyl ether)s as polymeric phase change materials. *Thermochimica Acta*, **2016**, 633, 161-169	2.9	11
50	Poly(styrene-*alt*-maleic anhydride) functionalized graphene oxide. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	8
49	Shape-stabilized phase change materials based on poly(ethylene-graft-maleic anhydride)-g-alkyl alcohol comb-like polymers. *Solar Energy Materials and Solar Cells*, **2015**, 143, 21-28	6.4	41
48	Chemical synthesis and characterization of dodecylbenzene sulfonic acid-doped polyaniline/viscose fiber. *RSC Advances*, **2015**, 5, 44687-44695	3.7	10
47	Novel dye-containing copolyimides: synthesis, characterization and effect of chain entanglements on developed electrospun nanofiber morphologies. *Journal of Polymer Research*, **2015**, 22, 1	2.7	6
46	Conductive polypyrrole/viscose fiber composites. *Carbohydrate Polymers*, **2015**, 127, 332-9	10.3	22
45	Microencapsulation and characterization of polyamic acid microcapsules containing n-octadecane via electrospraying method. *Materials Express*, **2015**, 5, 480-488	1.3	4
44	A Novel Method for the Preparation of Narrow-Disperse Nanoencapsulated Phase Change Materials by Phase Inversion Emulsification and Suspension Polymerization. *Industrial & Engineering Chemistry Research*, **2015**, 54, 9307-9313	3.9	12
43	Novel sulfonated polyimide/zwitterionic polymer-functionalized graphene oxide hybrid membranes for vanadium redox flow battery. *Journal of Power Sources*, **2015**, 299, 255-264	8.9	61
42	Enhanced stress transfer and thermal properties of polyimide composites with covalent functionalized reduced graphene oxide. *Composites Part A: Applied Science and Manufacturing*, **2015**, 68, 140-148	8.4	82
41	Synthesis and characterization of thermal energy storage microencapsulated n-dodecanol with acrylic polymer shell. *Energy*, **2015**, 87, 86-94	7.9	40
40	Graphene and carbon nanotubes for the synergistic reinforcement of polyamide 6 fibers. *Journal of Materials Science*, **2015**, 50, 2797-2805	4.3	43
39	Influences of Lateral Size on the Properties of Graphene Based Materials and Poly(vinylbutyral)/Graphene Composite Materials. *Science of Advanced Materials*, **2015**, 7, 1213-1220	2.3	2
38	Structure and properties of mixtures based on long chain polyacrylate and 1-alcohol composites. *Materials Chemistry and Physics*, **2014**, 143, 1069-1074	4.4	10

37	Fracture toughness of graphene. *Nature Communications*, **2014**, 5, 3782	17.4	433
36	Fabrication and characterization of microencapsulated phase change material with low supercooling for thermal energy storage. *Energy*, **2014**, 68, 160-166	7.9	57
35	Crystalline structure and phase behavior of N-alkylated polypyrrole comb-like polymers. *CrystEngComm*, **2014**, 16, 7090	3.3	18
34	Fabrication and Performances of Microencapsulated n-Alkanes with Copolymers Having n-Octadecyl Side Chains As Shells. *Industrial & Engineering Chemistry Research*, **2014**, 53, 1678-1687	3.9	14
33	Composition and Characterization of Thermoregulated Fiber Containing Acrylic-Based Copolymer Microencapsulated Phase-Change Materials (MicroPCMs). *Industrial & Engineering Chemistry Research*, **2014**, 53, 5413-5420	3.9	29
32	Effect of surface treatment on surface characteristics of carbon fibers and interfacial bonding of epoxy resin composites. *Fibers and Polymers*, **2014**, 15, 2395-2403	2	5
31	Functionalized multiwalled carbon nanotubes in mild polyphosphoric acid/phosphorous pentoxide/phosphoric acid and their composites with epoxy resin. *Polymer Composites*, **2014**, 35, 1275-1284	2	4
30	Quantitative Analysis of Adulterations in Oat Flour by FT-NIR Spectroscopy, Incomplete Unbalanced Randomized Block Design, and Partial Least Squares. *Journal of Analytical Methods in Chemistry*, **2014**, 2014, 393596	2	12
29	Thermal performance and crystallization behavior of poly(ethylene glycol) hexadecyl ether in confined environment. *Polymer International*, **2014**, 63, 982-988	3.3	13
28	Fabrication, Characterization and Suppression of Supercooling in Microencapsulated n-Octadecane with Methyl Methacrylate-Octadecyl Methacrylate Copolymer as Shell. *Science of Advanced Materials*, **2014**, 6, 120-127	2.3	6
27	Coaxial Electrospun Thermo-Regulated Sheath/Core Nanofibers with a Comb-Like Polymer Core. *Science of Advanced Materials*, **2014**, 6, 2640-2645	2.3	2
26	Fabrication, characterization, and supercooling suppression of nanoencapsulated n-octadecane with methyl methacrylate–octadecyl methacrylate copolymer shell. *Colloid and Polymer Science*, **2013**, 291, 1705-1712	2.4	26
25	Chain packing and phase transition of N-hexacosylated polyethyleneimine comb-like polymer: A combined investigation by synchrotron X-ray scattering and FTIR spectroscopy. *Polymer*, **2013**, 54, 6261-6266	3.9	14
24	Composite macrocapsule of phase change materials/expanded graphite for thermal energy storage. *Energy*, **2013**, 57, 607-614	7.9	56
23	Preparation and Properties of Microencapsulated Phase Change Materials Containing Two-Phase Core Materials. *Industrial & Engineering Chemistry Research*, **2013**, 52, 14706-14712	3.9	30
22	Crystal structure and thermal property of polyethylene glycol octadecyl ether. *Thermochimica Acta*, **2013**, 558, 83-86	2.9	15
21	Structure and thermal performance of poly(ethylene glycol) alkyl ether (Brij)/porous silica (MCM-41) composites as shape-stabilized phase change materials. *Thermochimica Acta*, **2013**, 570, 1-7	2.9	44
20	Fabrication and properties of poly(polyethylene glycol octadecyl ether methacrylate). *Thermochimica Acta*, **2013**, 574, 116-120	2.9	23

19	The production of a melt-spun functionalized graphene/poly(ε-caprolactam) nanocomposite fiber. *Composites Science and Technology*, **2013**, 81, 61-68	8.6	36
18	Structure and thermal performance of poly(styrene-co-maleic anhydride)-g-alkyl alcohol comb-like copolymeric phase change materials. *Thermochimica Acta*, **2013**, 564, 34-38	2.9	31
17	Removal of formaldehyde from overactivated-carbon-fiber-loaded biological enzyme. *Journal of Applied Polymer Science*, **2013**, 130, 2619-2623	2.9	4
16	New Approach to Fabricate Microcapsules with Comb-Like Copolymer Shell by Phase Separation Method. *Advanced Materials Research*, **2013**, 860-863, 577-581	0.5	1
15	Structures and properties of thermoregulated acrylonitrile–methyl acrylate sheet containing microphase change materials. *Polymer Composites*, **2013**, 34, 641-649	3	3
14	Facile Synthesis of Highly Photoactive ATO-Based Microcapsule for Solar Energy Harvesting. *Science of Advanced Materials*, **2013**, 5, 1498-1503	2.3	3
13	Fabrication and morphological characterization of microencapsulated phase change materials (MicroPCMs) and macrocapsules containing MicroPCMs for thermal energy storage. *Energy*, **2012**, 38, 249-254	7.9	87
12	Fabrication and characterization of polyamide 6-functionalized graphene nanocomposite fiber. *Journal of Materials Science*, **2012**, 47, 8052-8060	4.3	56
11	Graphene oxide stabilized polyethylene glycol for heat storage. *Physical Chemistry Chemical Physics*, **2012**, 14, 13233-8	3.6	176
10	Shape-stabilized phase change materials based on polyethylene glycol/porous carbon composite: The influence of the pore structure of the carbon materials. *Solar Energy Materials and Solar Cells*, **2012**, 105, 21-26	6.4	263
9	Microencapsulated Phase Change Materials and its Application in Thermal-Regulated Fibers. *Key Engineering Materials*, **2012**, 519, 6-9	0.4	2
8	Constitutive Relationship of New Steel 33Mn2V and Its Application in Piercing Process by FEM Simulation. *Journal of Iron and Steel Research International*, **2011**, 18, 47-52	1.2	4
7	Preparation and properties of poly(vinyl alcohol)-g-octadecanol copolymers based solid–solid phase change materials. *Materials Chemistry and Physics*, **2011**, 131, 108-112	4.4	41
6	Biodegradable poly(lactic acid) microspheres containing total alkaloids of Caulis sinomenii. *Bulletin of Materials Science*, **2011**, 34, 1715-1719	1.7	3
5	Nanoconfinement crystallization of frustrated alkyl groups: crossover of mesophase to crystalline structure. *Chemical Communications*, **2011**, 47, 3825-7	5.8	21
4	Preparation, characterization and permeation kinetics description of calcium alginate macro-capsules containing shape-stabilize phase change materials. *Renewable Energy*, **2011**, 36, 2984-2991	8.1	29
3	Structures and Properties of Wet Spun Thermo-Regulated Polyacrylonitrile-Vinylidene Chloride Fibers. *Textile Reseach Journal*, **2006**, 76, 351-359	1.7	66
2	High water flux poly(acrylonitrile-co-methyl acrylate) membranes fabricated via thermally induced phase separation120, 73-87		2

List of Publications

1	Effect of Solid-state Shear Milling Process on Mechanical Properties of PA66/graphene Nanocomposite Fibers. *Fibers and Polymers*,1	2	0