

Xingxiang Zhang

List of Publications by Citations

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162
papers

3,735
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32
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54
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163
ext. papers

4,513
ext. citations

5.3
avg, IF

5.73
L-index

#	Paper	IF	Citations
162	Fracture toughness of graphene. <i>Nature Communications</i> , 2014 , 5, 3782	17.4	433
161	Shape-stabilized phase change materials based on polyethylene glycol/porous carbon composite: The influence of the pore structure of the carbon materials. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 105, 21-26	6.4	263
160	Graphene oxide stabilized polyethylene glycol for heat storage. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 13233-8	3.6	176
159	Reversible thermochromic microencapsulated phase change materials for thermal energy storage application in thermal protective clothing. <i>Applied Energy</i> , 2018 , 217, 281-294	10.7	119
158	Fabrication and morphological characterization of microencapsulated phase change materials (MicroPCMs) and macrocapsules containing MicroPCMs for thermal energy storage. <i>Energy</i> , 2012 , 38, 249-254	7.9	87
157	Enhanced stress transfer and thermal properties of polyimide composites with covalent functionalized reduced graphene oxide. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 68, 140-148	8.4	82
156	Microencapsulated Phase Change Materials in Solar-Thermal Conversion Systems: Understanding Geometry-Dependent Heating Efficiency and System Reliability. <i>ACS Nano</i> , 2017 , 11, 721-729	16.7	78
155	Design of a Janus F-TiO@PPS Porous Membrane with Asymmetric Wettability for Switchable Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22408-22418	9.5	68
154	Structures and Properties of Wet Spun Thermo-Regulated Polyacrylonitrile-Vinylidene Chloride Fibers. <i>Textile Research Journal</i> , 2006 , 76, 351-359	1.7	66
153	Novel sulfonated polyimide/zwitterionic polymer-functionalized graphene oxide hybrid membranes for vanadium redox flow battery. <i>Journal of Power Sources</i> , 2015 , 299, 255-264	8.9	61
152	Fabrication and characterization of microencapsulated phase change material with low supercooling for thermal energy storage. <i>Energy</i> , 2014 , 68, 160-166	7.9	57
151	Composite macrocapsule of phase change materials/expanded graphite for thermal energy storage. <i>Energy</i> , 2013 , 57, 607-614	7.9	56
150	Fabrication and characterization of polyamide 6-functionalized graphene nanocomposite fiber. <i>Journal of Materials Science</i> , 2012 , 47, 8052-8060	4.3	56
149	Enhanced Thermal-to-Flexible Phase Change Materials Based on Cellulose/Modified Graphene Composites for Thermal Management of Solar Energy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45832-45843	9.5	52
148	Mussel-Inspired Polydopamine-Functionalized Graphene as a Conductive Adhesion Promoter and Protective Layer for Silver Nanowire Transparent Electrodes. <i>Langmuir</i> , 2016 , 32, 5365-72	4	48
147	Facile flexible reversible thermochromic membranes based on micro/nanoencapsulated phase change materials for wearable temperature sensor. <i>Applied Energy</i> , 2019 , 247, 615-629	10.7	47
146	Continuously hierarchical nanoporous graphene film for flexible solid-state supercapacitors with excellent performance. <i>Nano Energy</i> , 2016 , 24, 158-164	17.1	47

145	Structure and thermal performance of poly(ethylene glycol) alkyl ether (Brij)/porous silica (MCM-41) composites as shape-stabilized phase change materials. <i>Thermochimica Acta</i> , 2013 , 570, 1-7	2.9	44
144	Functionalized carbon nanotubes as phase change materials with enhanced thermal, electrical conductivity, light-to-thermal, and electro-to-thermal performances. <i>Carbon</i> , 2019 , 149, 263-272	10.4	43
143	Biodegradable Transparent Substrate Based on Edible Starch-Chitosan Embedded with Nature-Inspired Three-Dimensionally Interconnected Conductive Nanocomposites for Wearable Green Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23037-23047	9.5	43
142	Graphene and carbon nanotubes for the synergistic reinforcement of polyamide 6 fibers. <i>Journal of Materials Science</i> , 2015 , 50, 2797-2805	4.3	43
141	Design and fabrication of reversible thermochromic microencapsulated phase change materials for thermal energy storage and its antibacterial activity. <i>Energy</i> , 2018 , 159, 857-869	7.9	43
140	Low-temperature nanowelding ultrathin silver nanowire sandwiched between polydopamine-functionalized graphene and conjugated polymer for highly stable and flexible transparent electrodes. <i>Chemical Engineering Journal</i> , 2018 , 345, 260-270	14.7	42
139	Shape-stabilized phase change materials based on poly(ethylene-graft-maleic anhydride)-g-alkyl alcohol comb-like polymers. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 21-28	6.4	41
138	Preparation and properties of poly(vinyl alcohol)-g-octadecanol copolymers based solid-solid phase change materials. <i>Materials Chemistry and Physics</i> , 2011 , 131, 108-112	4.4	41
137	Synthesis and characterization of thermal energy storage microencapsulated n-dodecanol with acrylic polymer shell. <i>Energy</i> , 2015 , 87, 86-94	7.9	40
136	Fabrication and properties of graphene oxide-grafted-poly(hexadecyl acrylate) as a solid-solid phase change material. <i>Composites Science and Technology</i> , 2017 , 149, 262-268	8.6	38
135	Superhydrophilic and underwater superoleophobic poly (acrylonitrile-co-methyl acrylate) membrane for highly efficient separation of oil-in-water emulsions. <i>Journal of Membrane Science</i> , 2018 , 564, 712-721	9.6	36
134	Fabrication and characterization of novel shape-stabilized synergistic phase change materials based on PHDA/GO composites. <i>Energy</i> , 2017 , 138, 157-166	7.9	36
133	The production of a melt-spun functionalized graphene/poly(Ecaprolactam) nanocomposite fiber. <i>Composites Science and Technology</i> , 2013 , 81, 61-68	8.6	36
132	Electrostatic Assembly of a Titanium Dioxide@Hydrophilic Poly(phenylene sulfide) Porous Membrane with Enhanced Wetting Selectivity for Separation of Strongly Corrosive Oil-Water Emulsions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35479-35487	9.5	35
131	Chitosan composite microencapsulated comb-like polymeric phase change material via coacervation microencapsulation. <i>Carbohydrate Polymers</i> , 2018 , 200, 602-610	10.3	32
130	Thermo-responsive PVDF/PSMA composite membranes with micro/nanoscale hierarchical structures for oil/water emulsion separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 516, 305-316	5.1	31
129	Gamma irradiation and microemulsion assisted synthesis of monodisperse flower-like platinum-gold nanoparticles/reduced graphene oxide nanocomposites for ultrasensitive detection of carcinoembryonic antigen. <i>Sensors and Actuators B: Chemical</i> , 2019 , 287, 267-277	8.5	31
128	Fabrication of a PPS Microporous Membrane for Efficient Water-in-Oil Emulsion Separation. <i>Langmuir</i> , 2018 , 34, 10580-10590	4	31

127	Structure and thermal performance of poly(styrene-co-maleic anhydride)-g-alkyl alcohol comb-like copolymeric phase change materials. <i>Thermochimica Acta</i> , 2013 , 564, 34-38	2.9	31
126	Multiresponsive Shape-Stabilized Hexadecyl Acrylate-Grafted Graphene as a Phase Change Material with Enhanced Thermal and Electrical Conductivities. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8982-8991	9.5	30
125	Novel Dual-Component Microencapsulated Hydrophobic Amine and Microencapsulated Isocyanate Used for Self-Healing Anti-Corrosion Coating. <i>Polymers</i> , 2018 , 10,	4.5	30
124	Preparation and Properties of Microencapsulated Phase Change Materials Containing Two-Phase Core Materials. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 14706-14712	3.9	30
123	Superhydrophobic Covalent Organic Frameworks Prepared via Pore Surface Modifications for Functional Coatings under Harsh Conditions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2926-2934	9.5	30
122	Adhesive-free in situ synthesis of a coral-like titanium dioxide@poly(phenylene sulfide) microporous membrane for visible-light photocatalysis. <i>Chemical Engineering Journal</i> , 2019 , 374, 1382-1393	14.7	29
121	Composition and Characterization of Thermoregulated Fiber Containing Acrylic-Based Copolymer Microencapsulated Phase-Change Materials (MicroPCMs). <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 5413-5420	3.9	29
120	Preparation, characterization and permeation kinetics description of calcium alginate macro-capsules containing shape-stabilize phase change materials. <i>Renewable Energy</i> , 2011 , 36, 2984-2991	8.1	29
119	A novel PVDF/graphene composite membrane based on electrospun nanofibrous film for oil/water emulsion separation. <i>Composites Communications</i> , 2016 , 2, 5-8	6.7	27
118	Enhanced sheet-sheet welding and interfacial wettability of 3D graphene networks as radiation protection in gamma-irradiated epoxy composites. <i>Composites Science and Technology</i> , 2018 , 157, 57-66	8.6	26
117	3D graphene foams/epoxy composites with double-sided binder polyaniline interlayers for maintaining excellent electrical conductivities and mechanical properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 110, 246-257	8.4	26
116	Fabrication, characterization, and supercooling suppression of nanoencapsulated n-octadecane with methyl methacrylate-octadecyl methacrylate copolymer shell. <i>Colloid and Polymer Science</i> , 2013 , 291, 1705-1712	2.4	26
115	Liquid phase exfoliation of graphite into few-layer graphene by sonication and microfluidization. <i>Materials Express</i> , 2017 , 7, 491-499	1.3	25
114	Bioinspired Superwetable Covalent Organic Framework Nanofibrous Composite Membrane with a Spindle-Knotted Structure for Highly Efficient Oil/Water Emulsion Separation. <i>Langmuir</i> , 2019 , 35, 16545-16554	16.5	25
113	Preparation of polyaniline-coated polyacrylonitrile fiber mats and their application to Cr(VI) removal. <i>Synthetic Metals</i> , 2016 , 222, 255-266	3.6	24
112	Fabrication and properties of poly(polyethylene glycol octadecyl ether methacrylate). <i>Thermochimica Acta</i> , 2013 , 574, 116-120	2.9	23
111	Bead nano-necklace spheres on 3D carbon nanotube scaffolds for high-performance electromagnetic-interference shielding. <i>Chemical Engineering Journal</i> , 2019 , 360, 1241-1246	14.7	23
110	Conductive polypyrrole/viscose fiber composites. <i>Carbohydrate Polymers</i> , 2015 , 127, 332-9	10.3	22

109	Homogeneous synthesis of cellulose acrylate-g-poly (n-alkyl acrylate) solid-solid phase change materials via free radical polymerization. <i>Carbohydrate Polymers</i> , 2018 , 193, 129-136	10.3	21
108	Nanoconfinement crystallization of frustrated alkyl groups: crossover of mesophase to crystalline structure. <i>Chemical Communications</i> , 2011 , 47, 3825-7	5.8	21
107	Design, controlled fabrication and characterization of narrow-disperse macrocapsules containing Micro/NanoPCMs. <i>Materials and Design</i> , 2016 , 99, 225-234	8.1	20
106	Microstructure regulation of microencapsulated bio-based n-dodecanol as phase change materials via in situ polymerization. <i>New Journal of Chemistry</i> , 2017 , 41, 14696-14707	3.6	19
105	Enhancing solar thermal-electric energy conversion based on m-PEGMA/GO synergistic phase change aerogels. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13207-13217	13	19
104	Free-standing dual-network red phosphorus@porous multichannel carbon nanofibers/carbon nanotubes as a stable anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2019 , 322, 134696	6.7	19
103	Effect of N-isopropylacrylamide on the preparation and properties of microencapsulated phase change materials. <i>Energy</i> , 2016 , 106, 221-230	7.9	19
102	Radiation resistance of carbon fiber-reinforced epoxy composites optimized synergistically by carbon nanotubes in interface area/matrix. <i>Composites Part B: Engineering</i> , 2019 , 172, 447-457	10	18
101	Crystalline structure and phase behavior of N-alkylated polypyrrole comb-like polymers. <i>CrystEngComm</i> , 2014 , 16, 7090	3.3	18
100	Effects of oil-soluble etherified melamine-formaldehyde prepolymers on in situ microencapsulation and macroencapsulation of n-dodecanol. <i>New Journal of Chemistry</i> , 2017 , 41, 9424-9437	3.6	18
99	Thermo-regulated sheath/core submicron fiber with poly(diethylene glycol hexadecyl ether acrylate) as a core. <i>Textile Research Journal</i> , 2016 , 86, 493-501	1.7	17
98	Synthesis and characterization of cellulose-g-polyoxyethylene (2) hexadecyl ether solid-solid phase change materials. <i>Cellulose</i> , 2016 , 23, 1663-1674	5.5	17
97	Green fabrication of functionalized graphene via one-step method and its reinforcement for polyamide 66 fibers. <i>Materials Chemistry and Physics</i> , 2020 , 240, 122288	4.4	16
96	Crystal structure and thermal property of polyethylene glycol octadecyl ether. <i>Thermochimica Acta</i> , 2013 , 558, 83-86	2.9	15
95	Intelligent adjustment of light-to-thermal energy conversion efficiency of thermo-regulated fabric containing reversible thermochromic MicroPCMs. <i>Chemical Engineering Journal</i> , 2021 , 408, 127276	14.7	15
94	Fiber-welded ciliated-like nonwoven fabric nano-composite multiscale architectures for superior mechanical and electromagnetic shielding behaviors. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 121, 321-329	8.4	14
93	Fabrication and characterization of core-shell novel PU microcapsule using TDI trimer for release system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 550, 138-144	5.1	14
92	Fabrication and Performances of Microencapsulated n-Alkanes with Copolymers Having n-Octadecyl Side Chains As Shells. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 1678-1687	3.9	14

91	Chain packing and phase transition of N-hexacosylated polyethyleneimine comb-like polymer: A combined investigation by synchrotron X-ray scattering and FTIR spectroscopy. <i>Polymer</i> , 2013 , 54, 6261-6266	3.9	14
90	Properties and Fabrication of PA66/Surface-Modified Multi-Walled Nanotubes Composite Fibers by Ball Milling and Melt-Spinning. <i>Polymers</i> , 2018 , 10,	4.5	14
89	Poly-L-Lactic Acid/Graphene Electrospun Composite Nanofibers for Wearable Sensors. <i>Energy Technology</i> , 2020 , 8, 1901252	3.5	13
88	Thermal performance and crystallization behavior of poly(ethylene glycol) hexadecyl ether in confined environment. <i>Polymer International</i> , 2014 , 63, 982-988	3.3	13
87	Direct Liquid Phase Exfoliation of Graphite to Produce Few-Layer Graphene by Microfluidization. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 2078-2086	1.3	13
86	Reversible photochromic energy storage polyurea microcapsules via in-situ polymerization. <i>Energy</i> , 2021 , 219, 119630	7.9	13
85	Synthesis and electrochemical properties of Fe ₂ O ₃ porous microrods as anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 794, 333-340	5.7	12
84	A Novel Method for the Preparation of Narrow-Disperse Nanoencapsulated Phase Change Materials by Phase Inversion Emulsification and Suspension Polymerization. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 9307-9313	3.9	12
83	Amphiphilic cellulose for enhancing the antifouling and separation performances of poly (acrylonitrile-co-methyl acrylate) ultrafiltration membrane. <i>Journal of Membrane Science</i> , 2019 , 591, 1172-1176	9.6	12
82	Quantitative Analysis of Adulterations in Oat Flour by FT-NIR Spectroscopy, Incomplete Unbalanced Randomized Block Design, and Partial Least Squares. <i>Journal of Analytical Methods in Chemistry</i> , 2014 , 2014, 393596	2	12
81	Highly Efficient Purification of Multicomponent Wastewater by Electrospinning Kidney-Bean-Skin-like Porous H-PPAN/rGO-PAO@Ag/Ag Composite Nanofibrous Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46920-46929	9.5	12
80	SMA-Assisted Exfoliation of Graphite by Microfluidization for Efficient and Large-Scale Production of High-Quality Graphene. <i>Nanomaterials</i> , 2019 , 9,	5.4	12
79	Fabrication and properties of poly(polyethylene glycol n-alkyl ether vinyl ether)s as polymeric phase change materials. <i>Thermochimica Acta</i> , 2016 , 633, 161-169	2.9	11
78	Chemical synthesis and characterization of dodecylbenzene sulfonic acid-doped polyaniline/viscose fiber. <i>RSC Advances</i> , 2015 , 5, 44687-44695	3.7	10
77	Preparation of bi-continuous poly(acrylonitrile-co-methyl acrylate) microporous membranes by a thermally induced phase separation method. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46173	2.9	10
76	Structure and properties of mixtures based on long chain polyacrylate and 1-alcohol composites. <i>Materials Chemistry and Physics</i> , 2014 , 143, 1069-1074	4.4	10
75	Fabrication of high-strength PET fibers modified with graphene oxide of varying lateral size. <i>Journal of Materials Science</i> , 2020 , 55, 8940-8953	4.3	10
74	Preparation and Properties of Narrowly Dispersed Polyurethane Nanocapsules Containing Essential Oil via Phase Inversion Emulsification. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 10799-10807	5.7	10

73	Thermoelectric behavior of PEDOT:PSS/CNT/graphene composites. <i>Journal of Polymer Engineering</i> , 2018 , 38, 381-389	1.4	9
72	Catalyst-free large-scale synthesis of composite SiC@SiO ₂ /carbon nanofiber mats by blow-spinning. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 15233-15242	7.1	9
71	Polyamide 66 and amino-functionalized multi-walled carbon nanotube composites and their melt-spun fibers. <i>Journal of Materials Science</i> , 2019 , 54, 11056-11068	4.3	8
70	Lightweight sandwich fiber-welded foam-like nonwoven fabrics/graphene composites for electromagnetic shielding. <i>Materials Chemistry and Physics</i> , 2019 , 232, 246-253	4.4	8
69	Poly(styrene- <i>h</i> maleic anhydride) functionalized graphene oxide. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	8
68	Fabrication and characterization of diethylene glycol hexadecyl ether-grafted graphene oxide as a form-stable phase change material. <i>Thermochimica Acta</i> , 2018 , 661, 166-173	2.9	8
67	Microencapsulated Comb-Like Polymeric Solid-Solid Phase Change Materials via In-Situ Polymerization. <i>Polymers</i> , 2018 , 10,	4.5	8
66	Reversible Photochromic Nanofiber Membrane Containing Comb-Like Poly(octadecyl acrylate) Nanoparticles Used for Ultraviolet Intensity Indicator. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1900299	3.9	8
65	Synthesis and properties of self-assembled ultralong core-shell Si ₃ N ₄ /SiO ₂ nanowires by catalyst-free technique. <i>Ceramics International</i> , 2019 , 45, 20040-20045	5.1	8
64	Microencapsulation of oil soluble polyaspartic acid ester and isophorone diisocyanate and their application in self-healing anticorrosive epoxy resin. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48478 ^{2.9}	2.9	7
63	Cellulose-based phase change fibres for thermal energy storage and management applications. <i>Chemical Engineering Journal</i> , 2021 , 412, 128596	14.7	7
62	Elucidating synthesis of noble metal nanoparticles/graphene oxide in free-scavenger γ irradiation. <i>Current Applied Physics</i> , 2019 , 19, 780-786	2.6	6
61	Novel dye-containing copolyimides: synthesis, characterization and effect of chain entanglements on developed electrospun nanofiber morphologies. <i>Journal of Polymer Research</i> , 2015 , 22, 1	2.7	6
60	Facile Fabrication of PA66/GO/MWNTs-COOH Nanocomposites and Their Fibers. <i>Fibers</i> , 2019 , 7, 69	3.7	6
59	Fabrication, Characterization and Suppression of Supercooling in Microencapsulated n-Octadecane with Methyl Methacrylate-Octadecyl Methacrylate Copolymer as Shell. <i>Science of Advanced Materials</i> , 2014 , 6, 120-127	2.3	6
58	Effects of Polyvinyl Alcohol Modification on Microstructure, Thermal Properties and Impermeability of Microencapsulated n-Dodecanol as Phase Change Material. <i>ChemistrySelect</i> , 2017 , 2, 9369-9376	1.8	5
57	Effect of surface treatment on surface characteristics of carbon fibers and interfacial bonding of epoxy resin composites. <i>Fibers and Polymers</i> , 2014 , 15, 2395-2403	2	5
56	Graphene-Based Film Reduced by a Chemical and Thermal Synergy Method as a Transparent Conductive Electrode. <i>Science of Advanced Materials</i> , 2016 , 8, 1066-1073	2.3	5

55	Preparation, Morphology, and Thermal Performance of Microencapsulated Phase Change Materials with a MF/SiO ₂ Composite Shell. <i>Energy & Fuels</i> , 2020 , 34, 16819-16830	4.1	5
54	Synthesis and characterization of hydrophobic reversible thermochromic MicroPCMs with amino resins shell for thermal energy storage. <i>Energy and Buildings</i> , 2021 , 230, 110528	7	5
53	Fabrication and wet spinning of a fully aromatic meta-polybenzimidazole. <i>High Performance Polymers</i> , 2016 , 28, 288-295	1.6	4
52	Preparation of MnO ₂ @P(AN-VDC)/AC composite fibers for high capacity formaldehyde removal. <i>Materials Letters</i> , 2019 , 242, 51-54	3.3	4
51	Microencapsulation and characterization of polyamic acid microcapsules containing n-octadecane via electrospraying method. <i>Materials Express</i> , 2015 , 5, 480-488	1.3	4
50	Fabrication and Performance of Composite Microencapsulated Phase Change Materials with Palmitic Acid Ethyl Ester as Core. <i>Polymers</i> , 2018 , 10,	4.5	4
49	Electromagnetic shielding of ultrathin, lightweight and strong nonwoven composites decorated by a bandage-style interlaced layer electropolymerized with polyaniline. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 20420-20431	2.1	4
48	Functionalized multiwalled carbon nanotubes in mild polyphosphoric acid/phosphorous pentoxide/phosphoric acid and their composites with epoxy resin. <i>Polymer Composites</i> , 2014 , 35, 1275-1284	1.284	4
47	Removal of formaldehyde from overactivated-carbon-fiber-loaded biological enzyme. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 2619-2623	2.9	4
46	Constitutive Relationship of New Steel 33Mn2V and Its Application in Piercing Process by FEM Simulation. <i>Journal of Iron and Steel Research International</i> , 2011 , 18, 47-52	1.2	4
45	Preparation of 3D crimped ZnO/PAN hybrid nanofiber mats with photocatalytic activity and antibacterial properties by blow-spinning. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49908	2.9	4
44	Thermal energy regulated and thermochromic composite film with temperature-sensitive BreathableTomata. <i>Journal of Materials Science</i> , 2020 , 55, 12921-12939	4.3	3
43	The continuous flexible three dimensional curly carbon-based hybrid nanofibers with good resilience and electrochemical performance. <i>Materials and Design</i> , 2018 , 147, 114-121	8.1	3
42	Structures and properties of thermoregulated acrylonitrile-methyl acrylate sheet containing microphase change materials. <i>Polymer Composites</i> , 2013 , 34, 641-649	3	3
41	Biodegradable poly(lactic acid) microspheres containing total alkaloids of <i>Caulis sinomenii</i> . <i>Bulletin of Materials Science</i> , 2011 , 34, 1715-1719	1.7	3
40	Facile Synthesis of Highly Photoactive ATO-Based Microcapsule for Solar Energy Harvesting. <i>Science of Advanced Materials</i> , 2013 , 5, 1498-1503	2.3	3
39	Mace-like carbon fibers@Fe ₃ O ₄ @carbon composites as anode materials for lithium-ion batteries. <i>Ionics</i> , 2020 , 26, 5923-5934	2.7	3
38	Synthesis and photochromic behavior of comb-like acrylate polymer nanoparticle containing spiropyran. <i>Dyes and Pigments</i> , 2021 , 189, 109237	4.6	3

37	Structure and properties of poly(acrylonitrile-co-methyl acrylate) membranes prepared via thermally induced phase separation. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	3
36	Facile preparation and thermoelectric properties of PEDOT nanowires/Bi ₂ Te ₃ nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 17367-17373	2.1	3
35	Synthesis and characterization of microencapsulated phase change materials with chitosan-based polyurethane shell. <i>Carbohydrate Polymers</i> , 2021 , 273, 118629	10.3	3
34	Preparation and properties of polyaniline/viscose fiber adducts. <i>Polymer Composites</i> , 2017 , 38, 782-788	3	2
33	Effects of Fatty Acid Anhydride on the Structure and Thermal Properties of Cellulose-g-Polyoxyethylene (2) Hexadecyl Ether. <i>Polymers</i> , 2018 , 10,	4.5	2
32	Fabrication and Characterization of Novel Shape-Stabilized Phase Change Materials Based on P(TDA-HDA)/GO Composites. <i>Polymers</i> , 2019 , 11,	4.5	2
31	Microencapsulated Phase Change Materials and its Application in Thermal-Regulated Fibers. <i>Key Engineering Materials</i> , 2012 , 519, 6-9	0.4	2
30	Coaxial Electrospun Thermo-Regulated Sheath/Core Nanofibers with a Comb-Like Polymer Core. <i>Science of Advanced Materials</i> , 2014 , 6, 2640-2645	2.3	2
29	Influences of Lateral Size on the Properties of Graphene Based Materials and Poly(vinylbutyral)/Graphene Composite Materials. <i>Science of Advanced Materials</i> , 2015 , 7, 1213-1220	2.3	2
28	Impact-resistant membranes from electrospun fibers with a shear-thickening core. <i>Materials Chemistry and Physics</i> , 2022 , 277, 125478	4.4	2
27	High water flux poly(acrylonitrile-co-methyl acrylate) membranes fabricated via thermally induced phase separation	120, 73-87	2
26	Preparation of poly(acrylonitrile-methacrylate) membrane via thermally induced phase separation: effects of MA with different feeding molar ratios. <i>Desalination and Water Treatment</i> , 2016 , 1-17		2
25	Research on long-chain alkanol etherified melamine-formaldehyde resin MicroPCMs for energy storage. <i>Energy</i> , 2021 , 214, 119029	7.9	2
24	Enhancement of physical and mechanical properties of polyamide 66 fibers using polysiloxane-functionalized multi-walled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50170	2.9	2
23	Fabrication of High Performance PET/TLCP Fibers through the Synergistic Interfacial Enhancement and Compatibilization of Functional 1D and 2D Carbon Nanomaterials. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2000661	3.9	2
22	Suppressing Thermal Negative Effect and Maintaining High-Temperature Steady Electrical Performance of Triboelectric Nanogenerators by Employing Phase Change Material. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41657-41668	9.5	2
21	PVDF microspheres@PLLA nanofibers-based hybrid tribo/piezoelectric nanogenerator with excellent electrical output properties. <i>Materials Advances</i> , 2021 , 2, 6011-6019	3.3	2
20	Poly(mono/diethylene glycol -tetradecyl ether vinyl ether)s with Various Molecular Weights as Phase Change Materials. <i>Polymers</i> , 2018 , 10,	4.5	1

19	Fabrication and characterization of conductive microcapsule containing phase change material. <i>E-Polymers</i> , 2019 , 19, 519-526	2.7	1
18	Microencapsulation and Morphological Characterization of Renewable Microencapsulated Phase-Change Materials with Cellulose Diacetate Shell. <i>ChemistrySelect</i> , 2017 , 2, 5917-5923	1.8	1
17	New Approach to Fabricate Microcapsules with Comb-Like Copolymer Shell by Phase Separation Method. <i>Advanced Materials Research</i> , 2013 , 860-863, 577-581	0.5	1
16	Fabrication and Characterization of Poly(n-alkyl acrylic) Ester Shape-Stable Phase-Change Materials Based on UV Curing. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3358-3368	6.1	1
15	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. <i>ACS Applied Energy Materials</i> , 2021 , 4, 5359-5366	6.1	1
14	Photoinduced Microencapsulation of Microcapsules Containing n-Octadecane with P(APUA) and P(AMA) Shell. <i>Materials Science Forum</i> , 2016 , 852, 1182-1187	0.4	1
13	Synthesis of Fe_2O_3 double-layer hollow spheres with carbon coating using carbonaceous sphere templates for lithium ion battery anodes. <i>Journal of Solid State Electrochemistry</i> , 2021 , 25, 267-278	2.6	1
12	Design and synthesis of microcapsules with cross-linking network supporting core for supercooling degree regulation. <i>Energy and Buildings</i> , 2021 , 253, 111437	7	1
11	Polyamide 66 fibers synergistically reinforced with functionalized graphene and multi-walled carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2021 , 271, 124898	4.4	1
10	Preparation and properties of shape-stabilized phase change material cellulose benzoate-g-polyoxyethylene (2) hexadecyl ether with potential for thermal energy storage. <i>Textile Reseach Journal</i> , 2019 , 89, 1512-1521	1.7	0
9	Fabrication and characterization of hexadecyl acrylate cross-linked phase change microspheres. <i>E-Polymers</i> , 2020 , 20, 69-75	2.7	0
8	Properties of PEDOT nanowire/Te nanowire nanocomposites and fabrication of a flexible thermoelectric generator.. <i>RSC Advances</i> , 2020 , 10, 33965-33971	3.7	0
7	Influences of PVA modification on performance of microencapsulated reversible thermochromic phase change materials for energy storage application. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 222, 110938	6.4	0
6	Effect of Solid-state Shear Milling Process on Mechanical Properties of PA66/graphene Nanocomposite Fibers. <i>Fibers and Polymers</i> , 1	2	0
5	Preparation of Polyethylene Terephthalate/Polyketone/Graphene Oxide Composite Fibers: Implications for High-Performance Polymer Composites Modified with Carbon Nanomaterials. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9768-9778	5.6	0
4	Flexible thermoelectric nanodevices based on three-dimensional networks of poly(3,4-ethylenedioxythiophene) nanowires and graphene. <i>High Performance Polymers</i> , 2021 , 33, 657-664 ¹⁶		
3	Fabrication and performance of shape-stable phase change materials based on epoxy group crosslinking. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50681	2.9	
2	Microencapsulation of energy conversion photochromic materials with epoxy resin shell by interfacial polymerization. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 394, 022009	0.4	

- 1 Facile fabrication of high-performance PA66/MWNT nanocomposite fibers. *Colloid and Polymer Science*, **2022**, 300, 509 2.4