

# Xiaodong Wang

## List of Publications by Citations

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152  
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154  
ext. papers

7,099  
ext. citations

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avg, IF

6.51  
L-index

#	Paper	IF	Citations
152	Silica encapsulation of n-octadecane via sol-gel process: a novel microencapsulated phase-change material with enhanced thermal conductivity and performance. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 343, 246-55	9.3	331
151	Microencapsulation of n-octadecane phase change material with calcium carbonate shell for enhancement of thermal conductivity and serving durability: Synthesis, microstructure, and performance evaluation. <i>Applied Energy</i> , <b>2014</b> , 114, 632-643	10.7	305
150	Fabrication and performances of microencapsulated phase change materials based on n-octadecane core and resorcinol-modified melamine-formaldehyde shell. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2009</b> , 332, 129-138	5.1	198
149	Synthesis and properties of microencapsulated n-octadecane with polyurea shells containing different soft segments for heat energy storage and thermal regulation. <i>Solar Energy Materials and Solar Cells</i> , <b>2009</b> , 93, 1366-1376	6.4	195
148	Synthesis, characterization, thermal properties and flame retardancy of a novel nonflammable phosphazene-based epoxy resin. <i>Polymer Degradation and Stability</i> , <b>2009</b> , 94, 617-624	4.7	176
147	New approach for sol-gel synthesis of microencapsulated n-octadecane phase change material with silica wall using sodium silicate precursor. <i>Energy</i> , <b>2014</b> , 67, 223-233	7.9	155
146	Development of bifunctional microencapsulated phase change materials with crystalline titanium dioxide shell for latent-heat storage and photocatalytic effectiveness. <i>Applied Energy</i> , <b>2015</b> , 138, 661-674	10.7	149
145	Fabrication of microencapsulated phase change materials based on n-octadecane core and silica shell through interfacial polycondensation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2011</b> , 389, 104-117	5.1	126
144	Design and synthesis of magnetic microcapsules based on n-eicosane core and Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> hybrid shell for dual-functional phase change materials. <i>Applied Energy</i> , <b>2014</b> , 134, 456-468	10.7	125
143	Novel low- $T_g$ polyimide/mesoporous silica composite films: Preparation, microstructure, and properties. <i>Polymer</i> , <b>2007</b> , 48, 318-329	3.9	118
142	Innovative design of microencapsulated phase change materials for thermal energy storage and versatile applications: a review. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 1091-1149	5.8	114
141	Synthesis, characterization, and cure properties of phosphorus-containing epoxy resins for flame retardance. <i>European Polymer Journal</i> , <b>2004</b> , 40, 385-395	5.2	112
140	Novel spirocyclic phosphazene-based epoxy resin for halogen-free fire resistance: synthesis, curing behaviors, and flammability characteristics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 4047-61	9.5	108
139	Nanocomposites of poly(vinyl chloride) and nanometric calcium carbonate particles: Effects of chlorinated polyethylene on mechanical properties, morphology, and rheology. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 92, 2714-2723	2.9	99
138	Fabrication of multifunctional microcapsules containing n -eicosane core and zinc oxide shell for low-temperature energy storage, photocatalysis, and antibiosis. <i>Energy Conversion and Management</i> , <b>2015</b> , 106, 873-885	10.6	96
137	Effect of hydrotalcite on the thermal stability, mechanical properties, rheology and flame retardance of poly(vinyl chloride). <i>Polymer International</i> , <b>2004</b> , 53, 698-707	3.3	85
136	Novel cyclotriphosphazene-based epoxy compound and its application in halogen-free epoxy thermosetting systems: Synthesis, curing behaviors, and flame retardancy. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 103, 96-112	4.7	84

135	Fabrication of Graphene/TiO <sub>2</sub> /Paraffin Composite Phase Change Materials for Enhancement of Solar Energy Efficiency in Photocatalysis and Latent Heat Storage. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 4906-4915	8.3	83
134	High-performance copolyimide fibers containing quinazolinone moiety: Preparation, structure and properties. <i>Polymer</i> , <b>2013</b> , 54, 1700-1708	3.9	82
133	Design and fabrication of bifunctional microcapsules for solar thermal energy storage and solar photocatalysis by encapsulating paraffin phase change material into cuprous oxide. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 168, 146-164	6.4	80
132	Design and fabrication of dual-functional microcapsules containing phase change material core and zirconium oxide shell with fluorescent characteristics. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 133, 56-68	6.4	80
131	Fabrication of Spirocyclic Phosphazene Epoxy-Based Nanocomposites with Graphene via Exfoliation of Graphite Platelets and Thermal Curing for Enhancement of Mechanical and Conductive Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 10160-10171	3.9	80
130	Design and synthesis of multifunctional microencapsulated phase change materials with silver/silica double-layered shell for thermal energy storage, electrical conduction and antimicrobial effectiveness. <i>Energy</i> , <b>2016</b> , 111, 498-512	7.9	77
129	Self-Assembly Synthesis of Microencapsulated n-Eicosane Phase-Change Materials with Crystalline-Phase-Controllable Calcium Carbonate Shell. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 3519-3529	4.1	77
128	Phase-change characteristics and thermal performance of form-stable n-alkanes/silica composite phase change materials fabricated by sodium silicate precursor. <i>Renewable Energy</i> , <b>2015</b> , 74, 689-698	8.1	68
127	Synthesis, characterization and curing properties of a novel cycloliner phosphazene-based epoxy resin for halogen-free flame retardancy and high performance. <i>RSC Advances</i> , <b>2012</b> , 2, 5789	3.7	65
126	Novel Cycloliner Cyclotriphosphazene-Linked Epoxy Resin for Halogen-Free Fire Resistance: Synthesis, Characterization, and Flammability Characteristics. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 15064-15074	3.9	62
125	Fabrication of microencapsulated phase change materials with TiO <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> hybrid shell as thermoregulatory enzyme carriers: A novel design of applied energy microsystem for bioapplications. <i>Applied Energy</i> , <b>2017</b> , 201, 20-33	10.7	58
124	Surface modification of recycled carbon fiber and its reinforcement effect on nylon 6 composites: Mechanical properties, morphology and crystallization behaviors. <i>Current Applied Physics</i> , <b>2013</b> , 13, 2038-2050	2.6	58
123	High Specific Capacitance of Polyaniline/Mesoporous Manganese Dioxide Composite Using KI-H <sub>2</sub> SO <sub>4</sub> Electrolyte. <i>Polymers</i> , <b>2015</b> , 7, 1939-1953	4.5	58
122	Microencapsulation of n-dodecane into zirconia shell doped with rare earth: Design and synthesis of bifunctional microcapsules for photoluminescence enhancement and thermal energy storage. <i>Energy</i> , <b>2016</b> , 97, 113-126	7.9	56
121	Innovative design of superhydrophobic thermal energy-storage materials by microencapsulation of n-docosane with nanostructured ZnO/SiO <sub>2</sub> shell. <i>Applied Energy</i> , <b>2019</b> , 237, 549-565	10.7	56
120	Dynamic random access memory effect and memory device derived from a functional polyimide containing electron donor-acceptor pairs in the main chain. <i>Macromolecular Rapid Communications</i> , <b>2011</b> , 32, 384-9	4.8	55
119	Tailoring of bifunctional microencapsulated phase change materials with CdS/SiO <sub>2</sub> double-layered shell for solar photocatalysis and solar thermal energy storage. <i>Applied Thermal Engineering</i> , <b>2018</b> , 134, 603-614	5.8	53
118	Fabrication of high-performance copolyimide fibers from 3,3',4,4'-biphenyltetracarboxylic dianhydride, p-phenylenediamine and 2-(4-aminophenyl)-6-amino-4(3H)-quinazolinone. <i>Materials Letters</i> , <b>2012</b> , 89, 63-65	3.3	53

117	Toughening of poly(2,6-dimethyl-1,4-phenylene oxide)/nylon 6 alloys with functionalized elastomers via reactive compatibilization: morphology, mechanical properties, and rheology. <i>European Polymer Journal</i> , <b>2004</b> , 40, 1223-1232	5.2	53
116	Synthesis and morphological investigation of ordered SBA-15-type mesoporous silica with an amphiphilic triblock copolymer template under various conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 316, 27-36	5.1	47
115	Optimum toughening via a bicontinuous blending: toughening of PPO with SEBS and SEBS-g-maleic anhydride. <i>Polymer</i> , <b>2002</b> , 43, 37-43	3.9	46
114	Fabrication of shape-stable composite phase change materials based on lauric acid and graphene/graphene oxide complex aerogels for enhancement of thermal energy storage and electrical conduction. <i>Thermochimica Acta</i> , <b>2018</b> , 664, 1-15	2.9	45
113	Preparation, microstructure, and properties of novel low-brominated epoxy/mesoporous silica composites. <i>European Polymer Journal</i> , <b>2008</b> , 44, 1414-1427	5.2	45
112	A polymer network based on thermoplastic polyurethane and ethylene-propylene-diene elastomer via melt blending: morphology, mechanical properties, and rheology. <i>European Polymer Journal</i> , <b>2004</b> , 40, 2391-2399	5.2	45
111	Construction of polyaniline/carbon nanotubes-functionalized phase-change microcapsules for thermal management application of supercapacitors. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125317	14.7	43
110	Smart design and construction of nanoflake-like MnO <sub>2</sub> /SiO <sub>2</sub> hierarchical microcapsules containing phase change material for in-situ thermal management of supercapacitors. <i>Energy Conversion and Management</i> , <b>2018</b> , 164, 311-328	10.6	43
109	Morphology-controlled synthesis of microencapsulated phase change materials with TiO <sub>2</sub> shell for thermal energy harvesting and temperature regulation. <i>Energy</i> , <b>2019</b> , 172, 599-617	7.9	42
108	Synthesis of a novel linear polyphosphazene-based epoxy resin and its application in halogen-free flame-resistant thermosetting systems. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 118, 45-58	4.7	42
107	Preparation and Electrochemical Characterization of Mesoporous Polyaniline-Silica Nanocomposites as an Electrode Material for Pseudocapacitors. <i>Materials</i> , <b>2015</b> , 8, 1369-1383	3.5	41
106	Study on blends of thermoplastic polyurethane and aliphatic polyester: morphology, rheology, and properties as moisture vapor permeable films. <i>Polymer Testing</i> , <b>2005</b> , 24, 18-24	4.5	41
105	Preparation, isothermal kinetics, and performance of a novel epoxy thermosetting system based on phosphazene-cyclomatrix network for halogen-free flame retardancy and high thermal stability. <i>Thermochimica Acta</i> , <b>2015</b> , 607, 60-73	2.9	39
104	Synthesis and Performance of Cyclomatrix Polyphosphazene Derived from Trispiro-Cyclotriphosphazene as a Halogen-Free Nonflammable Material. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 231-238	8.3	39
103	Fabrication and applications of dual-responsive microencapsulated phase change material with enhanced solar energy-storage and solar photocatalytic effectiveness. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 193, 184-197	6.4	38
102	Effect of poly(ethylene oxide) on tribological performance and impact fracture behavior of polyoxymethylene/polytetrafluoroethylene fiber composites. <i>Composites Part B: Engineering</i> , <b>2011</b> , 42, 1945-1955	10	38
101	New type of piezo-damping epoxy-matrix composites with multi-walled carbon nanotubes and lead zirconate titanate. <i>Materials Letters</i> , <b>2008</b> , 62, 3859-3861	3.3	38
100	Fabrication and performances of epoxy/multi-walled carbon nanotubes/piezoelectric ceramic composites as rigid piezo-damping materials. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 4979-4987	4.3	38

99	Flammability characteristics and performance of halogen-free flame-retarded polyoxymethylene based on phosphorus-nitrogen synergistic effects. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 118, 611-622 <sup>2,9</sup>		37
98	Magnetic microencapsulated phase change materials with an organo-silica shell: Design, synthesis and application for electromagnetic shielding and thermal regulating polyimide films. <i>Energy</i> , <b>2016</b> , 98, 225-239	7.9	35
97	Recycled carbon fiber reinforced poly(butylene terephthalate) thermoplastic composites: fabrication, crystallization behaviors and performance evaluation. <i>Polymers for Advanced Technologies</i> , <b>2013</b> , 24, 364-375	3.2	34
96	Compatibilization and toughening of poly(2,6-dimethyl-1,4-phenylene oxide)/polyamide 6 alloy with poly(ethylene 1-octene): Mechanical properties, morphology, and rheology. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 88, 3110-3116	2.9	32
95	Cooperative toughening and cooperative compatibilization: the nylon 6/ethylene-co-vinyl acetate/ethylene-co-acrylic acid blends. <i>Polymer</i> , <b>2001</b> , 42, 9211-9216	3.9	32
94	Surface decoration of polyimide fiber with carbon nanotubes and its application for mechanical enhancement of phosphoric acid-based geopolymers. <i>Applied Surface Science</i> , <b>2017</b> , 416, 200-212	6.7	31
93	Development of Thermoregulatory Enzyme Carriers Based on Microencapsulated n-Docosane Phase Change Material for Biocatalytic Enhancement of Amylases. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 8396-8406	8.3	31
92	Compatibilizing effect of diglycidyl ether of bisphenol-A in polymer blend system: Nylon 6 combined with poly(butyl acrylate) core and poly(methyl methacrylate) shell particles. <i>Journal of Applied Polymer Science</i> , <b>2000</b> , 77, 24-29	2.9	30
91	Development of reversible and durable thermochromic phase-change microcapsules for real-time indication of thermal energy storage and management. <i>Applied Energy</i> , <b>2020</b> , 264, 114729	10.7	29
90	Mechanical properties, morphology and crystallization kinetic studies of bio-based thermoplastic composites of poly(butylene succinate) with recycled carbon fiber. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2013</b> , 88, 1200-1211	3.5	29
89	Temperature and pH dual-stimuli-responsive phase-change microcapsules for multipurpose applications in smart drug delivery. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 583, 470-486	9.3	29
88	Preparation, microstructures, and properties of long-glass-fiber-reinforced thermoplastic composites based on polycarbonate/poly(butylene terephthalate) alloys. <i>Journal of Reinforced Plastics and Composites</i> , <b>2015</b> , 34, 1804-1820	2.9	28
87	Electrochemical prepared phosphorene as a cathode for supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 770, 26-34	5.7	28
86	Effect of ionomers on mechanical properties, morphology, and rheology of polyoxymethylene and its blends with methyl methacrylate-butadiene copolymer. <i>European Polymer Journal</i> , <b>2005</b> , 41, 871-880	5.2	28
85	Molecularly Imprinted Phase-Change Microcapsule System for Bifunctional Applications in Waste Heat Recovery and Targeted Pollutant Removal. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37644-37664 <sup>9,5,27</sup>	9.5	27
84	Ultra High Electrical Performance of Nano Nickel Oxide and Polyaniline Composite Materials. <i>Polymers</i> , <b>2017</b> , 9,	4.5	26
83	A two-step route to synthesis of small-pored and thick-walled SBA-16-type mesoporous silica under mildly acidic conditions. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 307, 158-65	9.3	26
82	High Performance of Supercapacitor from PEDOT:PSS Electrode and Redox Iodide Ion Electrolyte. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	23

81	Crystallization behavior and foaming properties of polypropylene containing ultra-high molecular weight polyethylene under supercritical carbon dioxide. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 119, 1275-1286	2.9	23
80	Development of lightweight thermoplastic composites based on polycarbonate/acrylonitrile-butadiene-styrene copolymer alloys and recycled carbon fiber: Preparation, morphology, and properties. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 129, 3502-3511	2.9	22
79	Microencapsulating n-docosane phase change material into CaCO <sub>3</sub> /Fe <sub>3</sub> O <sub>4</sub> composites for high-efficient utilization of solar photothermal energy. <i>Renewable Energy</i> , <b>2021</b> , 179, 47-64	8.1	22
78	Fabrication of long glass fiber reinforced polyacetal composites: Mechanical performance, microstructures, and isothermal crystallization kinetics. <i>Polymer Composites</i> , <b>2015</b> , 36, 1826-1839	3	21
77	Preparation, crystallization behaviors, and mechanical properties of biodegradable composites based on poly(L-lactic acid) and recycled carbon fiber. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2012</b> , 43, 1947-1958	8.4	21
76	Immobilization of laccase on phase-change microcapsules as self-thermoregulatory enzyme carrier for biocatalytic enhancement. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126695	14.7	21
75	Design and construction of mesoporous silica/n-eicosane phase-change nanocomposites for supercooling depression and heat transfer enhancement. <i>Energy</i> , <b>2019</b> , 188, 116075	7.9	20
74	An ultrahigh performance supercapacitors based on simultaneous redox in both electrode and electrolyte. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 694, 136-144	5.7	20
73	New Supercapacitors Based on the Synergetic Redox Effect between Electrode and Electrolyte. <i>Materials</i> , <b>2016</b> , 9,	3.5	19
72	New type of low-dielectric composites based on o-cresol novolac epoxy resin and mesoporous silicas: fabrication and performances. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 4455-4465	4.3	17
71	Double-layered surface decoration of flaky aluminum pigments with zinc aluminum phosphate and phytic acid-aluminum complexes for high-performance waterborne coatings. <i>Powder Technology</i> , <b>2020</b> , 362, 462-473	5.2	17
70	Tuning Electrical Memory Behavior from Nonvolatile to Volatile by Varying Tethering Positions of the Anthracene Moiety in Functional Polyimides. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 26217-26224	2.8	16
69	Effect of nylon 6 on fracture behavior and morphology of tough blends of poly(2,6-dimethyl-1,4-phenylene oxide) and maleated styrene-ethylene-butadiene-styrene block copolymer. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 99, 3336-3343	2.9	16
68	Polyimide/ladder-like polysilsesquioxane hybrid films: Mechanical performance, microstructure and phase separation behaviors. <i>Composites Part B: Engineering</i> , <b>2014</b> , 56, 808-814	10	15
67	Acidity-dependent mesostructure transformation of highly ordered mesoporous silica materials during a two-step synthesis. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 2507-2514	3.9	15
66	Flexible and foldable composite films based on polyimide/phosphorene hybrid aerogel and phase change material for infrared stealth and thermal camouflage. <i>Composites Science and Technology</i> , <b>2022</b> , 217, 109127	8.6	15
65	Development of poly(ethylene glycol)/silica phase-change microcapsules with well-defined core-shell structure for reliable and durable heat energy storage. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 225, 111069	6.4	15
64	Design and fabrication of pH-responsive microencapsulated phase change materials for multipurpose applications. <i>Reactive and Functional Polymers</i> , <b>2019</b> , 140, 111-123	4.6	14

63	Self-assembly fabrication, microstructures and antibacterial performance of layer-structured montmorillonite nanocomposites with cationic silica nanoparticles. <i>RSC Advances</i> , <b>2017</b> , 7, 31502-31511	3.7	14
62	Compatibilizing effect of ethylene-vinyl acetate-acrylic acid copolymer on nylon 6/ethylene-vinyl acetate copolymer blended system: mechanical properties, morphology and rheology. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 5465-5473	4.3	14
61	Mechanical and tribological enhancement of polyoxymethylene-based composites with long basalt fiber through melt pultrusion. <i>Composite Interfaces</i> , <b>2016</b> , 23, 743-761	2.3	13
60	Fluorescent sensing system based on molecularly imprinted phase-change microcapsules and carbon quantum dots for high-efficient detection of tetracycline. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 599, 332-350	9.3	13
59	Development of Renewable Biomass-Derived Carbonaceous Aerogel/Mannitol Phase-Change Composites for High Thermal-Energy-Release Efficiency and Shape Stabilization. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1714-1730	6.1	13
58	High performance nanocomposite electrodes of mesoporous silica platelet-polyaniline synthesized via impregnation polymerization. <i>Polymer Composites</i> , <b>2017</b> , 38, 1616-1623	3	12
57	A novel self-thermoregulatory electrode material based on phosphorene-decorated phase-change microcapsules for supercapacitors. <i>Electrochimica Acta</i> , <b>2020</b> , 354, 136718	6.7	12
56	Surface decoration of short-cut polyimide fibers with multi-walled carbon nanotubes and their application for reinforcement of lightweight PC/ABS composites. <i>Applied Surface Science</i> , <b>2018</b> , 442, 124-137	6.7	12
55	Fabrication, mechanical performance and tribological behaviors of polyacetal-fiber-reinforced metakaolin-based geopolymeric composites. <i>Ceramics International</i> , <b>2016</b> , 42, 6329-6341	5.1	12
54	A phosphate-based epoxy resin for flame retardance: synthesis, characterization, and cure properties. <i>Colloid and Polymer Science</i> , <b>2005</b> , 283, 593-603	2.4	12
53	Lamellar-structured phase change composites based on biomass-derived carbonaceous sheets and sodium acetate trihydrate for high-efficient solar photothermal energy harvest. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 229, 111140	6.4	12
52	CO catalytic combustion over Co/Al <sub>2</sub> O <sub>3</sub> : Influence of diverse textural properties of alumina supports on the related oxidation activities. <i>Catalysis Today</i> , <b>2013</b> , 216, 169-177	5.3	11
51	Synchronous toughening and reinforcing of polypropylene with ultrahigh-molecular-weight polyethylene via melt blending: Mechanical properties, morphology, and rheology. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 100, 3498-3509	2.9	11
50	Influence of processing conditions on dual-phase continuous blend system of thermoplastic polyurethane with ethylene-propylene-diene monomer elastomer. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 102, 5472-5482	2.9	11
49	Hierarchical microencapsulation of phase change material with carbon-nanotubes/polydopamine/silica shell for synergistic enhancement of solar photothermal conversion and storage. <i>Solar Energy Materials and Solar Cells</i> , <b>2022</b> , 236, 111539	6.4	11
48	Polyimide/MXene hybrid aerogel-based phase-change composites for solar-driven seawater desalination. <i>Chemical Engineering Journal</i> , <b>2022</b> , 440, 135862	14.7	11
47	Design and fabrication of long-carbon-fiber-reinforced polyamide-6/nickel powder composites for electromagnetic interference shielding and high mechanical performance. <i>Polymer Composites</i> , <b>2016</b> , 37, 2705-2718	3	10
46	Preparation, mechanical properties and microstructure of polyoxymethylene fiber through melt spinning and hot drawing by using injection-molding grade resins. <i>Fibers and Polymers</i> , <b>2016</b> , 17, 1464-1474	2	10

45	Development of sustainable polyoxymethylene-based composites with recycled carbon fibre: mechanical enhancement, morphology, and crystallization kinetics. <i>Journal of Reinforced Plastics and Composites</i> , <b>2014</b> , 33, 294-309	2.9	10
44	Regulating the electrical bistable memory characteristics in functional polyimides by varying the spatial position of the electron-donating species. <i>European Polymer Journal</i> , <b>2017</b> , 95, 186-194	5.2	10
43	Mechanical properties, impact fracture behavior, and morphology of long-polyimide-fiber-reinforced poly(butylene terephthalate) composites. <i>Journal of Composite Materials</i> , <b>2017</b> , 51, 3425-3439	2.7	9
42	Free-Standing and Heteroatoms-Doped Carbon Nanofiber Networks as a Binder-Free Flexible Electrode for High-Performance Supercapacitors. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	9
41	Preparation of polyimide films microwave-assisted thermal imidization.. <i>RSC Advances</i> , <b>2019</b> , 9, 7314-7320	3.7	9
40	In-situ encapsulation of flaky aluminum pigment with poly(methylhydrosiloxane) anti-corrosion film for high-performance waterborne coatings. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2020</b> , 89, 239-249	6.3	9
39	High Electrochemical Performance Phosphorus-Oxide Modified Graphene Electrode for Redox Supercapacitors Prepared by One-Step Electrochemical Exfoliation. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	9
38	Asymmetric isomerization: an efficient strategy to tune the electrical resistive memory behaviors of functional polyimides containing N-phenylcarbazole moieties. <i>RSC Advances</i> , <b>2017</b> , 7, 23550-23559	3.7	8
37	Development of Polyoxymethylene/Poly(lactide) Blends for a Potentially Biodegradable Material: Crystallization Kinetics, Lifespan Prediction, and Enzymatic Degradation Behavior. <i>Polymers</i> , <b>2019</b> , 11,	4.5	8
36	Achieving tunable memory performance from nonvolatile to volatile by altering the trap depth of charge trapping sites in functional imides containing carbazole moieties. <i>Dyes and Pigments</i> , <b>2017</b> , 146, 1-6	4.6	8
35	A two-step synthesis of well-ordered cubic mesoporous silica materials under mildly acidic conditions. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 108, 183-192	5.3	8
34	Integration of Magnetic Phase-Change Microcapsules with Black Phosphorus Nanosheets for Efficient Harvest of Solar Photothermal Energy. <i>ACS Applied Energy Materials</i> ,	6.1	8
33	Crystalline Characteristics, Mechanical Properties, Thermal Degradation Kinetics and Hydration Behavior of Biodegradable Fibers Melt-Spun from Polyoxymethylene/Poly(l-lactic acid) Blends. <i>Polymers</i> , <b>2019</b> , 11,	4.5	8
32	Innovative Integration of Phase-Change Microcapsules with Metal-Organic Frameworks into an Intelligent Biosensing System for Enhancing Dopamine Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 41753-41772	9.5	8
31	Surface construction of Ni(OH) <sub>2</sub> nanoflowers on phase-change microcapsules for enhancement of heat transfer and thermal response. <i>Applied Surface Science</i> , <b>2021</b> , 562, 150211	6.7	8
30	Effect of discontinuous long polyimide fiber on mechanical properties, fracture morphology, and crystallization behaviors of polyamide-6 matrix composites. <i>Journal of Thermoplastic Composite Materials</i> , <b>2018</b> , 31, 223-245	1.9	7
29	Isothermal Crystallization Kinetics, Morphology, and Mechanical Properties of Biocomposites Based on Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) and Recycled Carbon Fiber. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 14047-14060	3.9	7
28	Preparation and characterization of polyimide/ladder like polysiloxane hybrid films. <i>Materials Letters</i> , <b>2010</b> , 64, 2710-2713	3.3	7



27	Morphology-controlled fabrication of magnetic phase-change microcapsules for synchronous efficient recovery of wastewater and waste heat. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 608, 1497-1513	7.3	7
26	Nanoflaky nickel-hydroxide-decorated phase-change microcapsules as smart electrode materials with thermal self-regulation function for supercapacitor application. <i>Renewable Energy</i> , <b>2021</b> , 174, 557-572	8.1	7
25	formation of surface-functionalized ionic calcium carbonate nanoparticles with liquid-like behaviours and their electrical properties. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 170732	3.3	6
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23	New evidence on the correlation between lattice fringe with catalytic performance for suprafacial CO and intrafacial CH <sub>4</sub> oxidations over Co <sub>3</sub> O <sub>4</sub> by isotopic <sup>18</sup> O <sub>2</sub> exchange. <i>Molecular Catalysis</i> , <b>2017</b> , 437, 26-36	3.3	5
22	Effects of phosphate and polysiloxane on flame retardancy and impact toughening behavior of poly(2,6-dimethyl-1,4-phenylene oxide). <i>Polymer Engineering and Science</i> , <b>2012</b> , 52, 927-936	2.3	5
21	Synthesis and characterization of ordered and cubic mesoporous silica crystals under a moderately acidic condition. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 465-471	4.3	5
20	Preparation, morphology, and properties of multilamellar barrier materials based on blends of high-density polyethylene and copolyester. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 101, 3791-3799	2.9	5
19	Size-tunable CaCO <sub>3</sub> @n-eicosane phase-change microcapsules for thermal energy storage. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 640, 128470	5.1	5
18	Magnetic field-assisted acceleration of energy storage based on microencapsulation of phase change material with CaCO <sub>3</sub> /Fe <sub>3</sub> O <sub>4</sub> composite shell. <i>Journal of Energy Storage</i> , <b>2021</b> , 103574	7.8	5
17	Thermal self-regulatory smart biosensor based on horseradish peroxidase-immobilized phase-change microcapsules for enhancing detection of hazardous substances. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132982	14.7	5
16	Development of photoluminescence phase-change microcapsules for comfort thermal regulation and fluorescent recognition applications in advanced textiles. <i>Journal of Energy Storage</i> , <b>2022</b> , 49, 104158	7.8	4
15	Microstructure evolution and properties of polyimide fibers containing trifluoromethyl units. <i>High Performance Polymers</i> , <b>2020</b> , 32, 39-46	1.6	4
14	Electrochemically prepared black phosphorene micro-powder as flame retardant for epoxy resin. <i>Composite Interfaces</i> , <b>2021</b> , 28, 693-705	2.3	4
13	Tuning the Electrical Memory Behavior from Nonvolatile to Volatile in Functional Copolyimides Bearing Varied Fluorene and Pyrene Moieties. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 2011-2020	1.9	3
12	A new synthesis of lamellar-mesostructured silica by using poly(ethylene glycol) distearate as template. <i>Materials Research Bulletin</i> , <b>2008</b> , 43, 2979-2985	5.1	3
11	Polyimide/phosphorene hybrid aerogel-based composite phase change materials for high-efficient solar energy capture and photothermal conversion. <i>Applied Thermal Engineering</i> , <b>2022</b> , 207, 118173	5.8	3
10	Biomass homogeneity reinforced carbon aerogels derived functional phase-change materials for solar-thermal energy conversion and storage. <i>Energy and Environmental Materials</i> ,	13	3

9	Thermal self-regulatory intelligent biosensor based on carbon-nanotubes-decorated phase-change microcapsules for enhancement of glucose detection. <i>Biosensors and Bioelectronics</i> , <b>2022</b> , 195, 113586	11.8	3
8	Preparation and Microstructure Control of PMDA/ODA Polyimide Hollow Fibers. <i>Fibers and Polymers</i> , <b>2020</b> , 21, 944-953	2	2
7	Modification of recycled polycarbonate with core-shell structured latexes for enhancement of impact resistance and flame retardancy. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 116, NA-NA	2.9	2
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2	Electromechanical properties of Nafion/carbon nanotube composites enhanced by black phosphorus. <i>Composite Interfaces</i> , <b>2021</b> , 28, 671-681	2.3	0
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