

# Xiaodong Wang

## List of Publications by Year in descending order

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154  
papers

8,329  
citations

38720

50  
h-index

54882

84  
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154  
all docs

154  
docs citations

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times ranked

5618  
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2010, 343, 246-255.	5.0	419
2	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> , 2014, 114, 632-643.	5.1	416
3	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> , 2009, 332, 129-138.	2.3	239
4	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> , 2009, 93, 1366-1376.	3.0	233
5	Development of bifunctional microencapsulated phase change materials with crystalline titanium dioxide shell for latent-heat storage and photocatalytic effectiveness. <i>Applied Energy</i> , 2015, 138, 661-674.	5.1	209
6	New approach for sol-gel synthesis of microencapsulated n-octadecane phase change material with silica wall using sodium silicate precursor. <i>Energy</i> , 2014, 67, 223-233.	4.5	202
7	Synthesis, characterization, thermal properties and flame retardancy of a novel nonflammable phosphazene-based epoxy resin. <i>Polymer Degradation and Stability</i> , 2009, 94, 617-624.	2.7	197
8	Innovative design of microencapsulated phase change materials for thermal energy storage and versatile applications: a review. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1091-1149.	2.5	194
9	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> , 2011, 389, 104-117.	2.3	163
10	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> , 2014, 134, 456-468.	5.1	159
11	Novel Spirocyclic Phosphazene-Based Epoxy Resin for Halogen-Free Fire Resistance: Synthesis, Curing Behaviors, and Flammability Characteristics. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 4047-4061.	4.0	131
12	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> , 2015, 106, 873-885.	4.4	130
13	Novel low- $\hat{\eta}$ polyimide/mesoporous silica composite films: Preparation, microstructure, and properties. <i>Polymer</i> , 2007, 48, 318-329.	1.8	129
14	Synthesis, characterization, and cure properties of phosphorus-containing epoxy resins for flame retardance. <i>European Polymer Journal</i> , 2004, 40, 385-395.	2.6	124
15	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> , 2017, 168, 146-164.	3.0	116
16	Polyimide/MXene hybrid aerogel-based phase-change composites for solar-driven seawater desalination. <i>Chemical Engineering Journal</i> , 2022, 440, 135862.	6.6	116
17	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> , 2017, 5, 4906-4915.	3.2	115
18	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> , 2004, 92, 2714-2723.	1.3	106

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19	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> , 2014, 103, 96-112.	2.7	100
20	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> , 2016, 111, 498-512.	4.5	100
21	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> , 2015, 133, 56-68.	3.0	99
22	Effect of hydrotalcite on the thermal stability, mechanical properties, rheology and flame retardance of poly(vinyl chloride). <i>Polymer International</i> , 2004, 53, 698-707.	1.6	98
23	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> , 2015, 74, 689-698.	4.3	95
24	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> , 2013, 52, 10160-10171.	1.8	94
25	Self-Assembly Synthesis of Microencapsulated n-Eicosane Phase-Change Materials with Crystalline-Phase-Controllable Calcium Carbonate Shell. <i>Energy &amp; Fuels</i> , 2014, 28, 3519-3529.	2.5	94
26	Construction of polyaniline/carbon nanotubes-functionalized phase-change microcapsules for thermal management application of supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 396, 125317.	6.6	91
27	High-performance copolyimide fibers containing quinazolinone moiety: Preparation, structure and properties. <i>Polymer</i> , 2013, 54, 1700-1708.	1.8	88
28	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> , 2019, 237, 549-565.	5.1	86
29	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> , 2021, 179, 47-64.	4.3	86
30	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> , 2022, 217, 109127.	3.8	85
31	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> , 2017, 201, 20-33.	5.1	83
32	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> , 2018, 134, 603-614.	3.0	83
33	Morphology-controlled synthesis of microencapsulated phase change materials with TiO <sub>2</sub> shell for thermal energy harvesting and temperature regulation. <i>Energy</i> , 2019, 172, 599-617.	4.5	80
34	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> , 2012, 2, 5789.	1.7	79
35	Novel Cycloliner Cyclotriphosphazene-Linked Epoxy Resin for Halogen-Free Fire Resistance: Synthesis, Characterization, and Flammability Characteristics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 15064-15074.	1.8	77
36	High Specific Capacitance of Polyaniline/Mesoporous Manganese Dioxide Composite Using KI-H <sub>2</sub> SO <sub>4</sub> Electrolyte. <i>Polymers</i> , 2015, 7, 1939-1953.	2.0	75

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37	Temperature and pH dual-stimuli-responsive phase-change microcapsules for multipurpose applications in smart drug delivery. <i>Journal of Colloid and Interface Science</i> , 2021, 583, 470-486.	5.0	75
38	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> , 2022, 236, 111539.	3.0	72
39	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> , 2013, 13, 2038-2050.	1.1	71
40	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> , 2016, 97, 113-126.	4.5	69
41	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> , 2019, 193, 184-197.	3.0	64
42	Development of reversible and durable thermochromic phase-change microcapsules for real-time indication of thermal energy storage and management. <i>Applied Energy</i> , 2020, 264, 114729.	5.1	64
43	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> , 2018, 664, 1-15.	1.2	63
44	Polyimide/phosphorene hybrid aerogel-based composite phase change materials for high-efficient solar energy capture and photothermal conversion. <i>Applied Thermal Engineering</i> , 2022, 207, 118173.	3.0	62
45	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> , 2018, 164, 311-328.	4.4	59
46	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> , 2004, 40, 1223-1232.	2.6	58
47	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> , 2012, 89, 63-65.	1.3	58
48	Immobilization of laccase on phase-change microcapsules as self-thermoregulatory enzyme carrier for biocatalytic enhancement. <i>Chemical Engineering Journal</i> , 2021, 405, 126695.	6.6	58
49	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> , 2011, 32, 384-389.	2.0	56
50	Synthesis and Performance of Cyclomatrix Polyphosphazene Derived from Trispiro-Cyclotriphosphazene as a Halogen-Free Nonflammable Material. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 231-238.	3.2	56
51	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> , 2021, 225, 111069.	3.0	52
52	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> , 2015, 118, 45-58.	2.7	51
53	Preparation and Electrochemical Characterization of Mesoporous Polyaniline-Silica Nanocomposites as an Electrode Material for Pseudocapacitors. <i>Materials</i> , 2015, 8, 1369-1383.	1.3	50
54	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> , 2016, 98, 225-239.	4.5	50

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55	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> , 2021, 229, 111140.	3.0	50
56	A polymer network based on thermoplastic polyurethane and ethylene- $\alpha$ -propylene- $\alpha$ -diene elastomer via melt blending: morphology, mechanical properties, and rheology. <i>European Polymer Journal</i> , 2004, 40, 2391-2399.	2.6	48
57	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> , 2008, 316, 27-36.	2.3	48
58	Effect of poly(ethylene oxide) on tribological performance and impact fracture behavior of polyoxymethylene/polytetrafluoroethylene fiber composites. <i>Composites Part B: Engineering</i> , 2011, 42, 1945-1955.	5.9	48
59	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> , 2015, 607, 60-73.	1.2	48
60	Optimum toughening via a bicontinuous blending: toughening of PPO with SEBS and SEBS-g-maleic anhydride. <i>Polymer</i> , 2002, 43, 37-43.	1.8	47
61	Preparation, microstructure, and properties of novel low- $\hat{\rho}$ brominated epoxy/mesoporous silica composites. <i>European Polymer Journal</i> , 2008, 44, 1414-1427.	2.6	47
62	New type of piezo-damping epoxy-matrix composites with multi-walled carbon nanotubes and lead zirconate titanate. <i>Materials Letters</i> , 2008, 62, 3859-3861.	1.3	47
63	Surface decoration of polyimide fiber with carbon nanotubes and its application for mechanical enhancement of phosphoric acid-based geopolymers. <i>Applied Surface Science</i> , 2017, 416, 200-212.	3.1	46
64	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> , 2021, 599, 332-350.	5.0	45
65	Study on blends of thermoplastic polyurethane and aliphatic polyester: morphology, rheology, and properties as moisture vapor permeable films. <i>Polymer Testing</i> , 2005, 24, 18-24.	2.3	43
66	Electrochemical prepared phosphorene as a cathode for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 770, 26-34.	2.8	43
67	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> , 2021, 4, 1714-1730.	2.5	42
68	Fabrication and performances of epoxy/multi-walled carbon nanotubes/piezoelectric ceramic composites as rigid piezo-damping materials. <i>Journal of Materials Science</i> , 2008, 43, 4979-4987.	1.7	41
69	Flammability characteristics and performance of halogen-free flame-retarded polyoxymethylene based on phosphorus- $\alpha$ -nitrogen synergistic effects. <i>Journal of Applied Polymer Science</i> , 2010, 118, 611-622.	1.3	41
70	Recycled carbon fiber reinforced poly(butylene terephthalate) thermoplastic composites: fabrication, crystallization behaviors and performance evaluation. <i>Polymers for Advanced Technologies</i> , 2013, 24, 364-375.	1.6	41
71	Molecularly Imprinted Phase-Change Microcapsule System for Bifunctional Applications in Waste Heat Recovery and Targeted Pollutant Removal. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 37644-37664.	4.0	41
72	Integration of Magnetic Phase-Change Microcapsules with Black Phosphorus Nanosheets for Efficient Harvest of Solar Photothermal Energy. <i>ACS Applied Energy Materials</i> , 2021, 4, 13248-13262.	2.5	39

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73	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> , 2003, 88, 3110-3116.	1.3	38
74	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> , 2017, 5, 8396-8406.	3.2	36
75	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> , 2013, 88, 1200-1211.	1.6	35
76	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> , 2015, 34, 1804-1820.	1.6	34
77	Ultra High Electrical Performance of Nano Nickel Oxide and Polyaniline Composite Materials. <i>Polymers</i> , 2017, 9, 288.	2.0	33
78	High Performance of Supercapacitor from PEDOT:PSS Electrode and Redox Iodide Ion Electrolyte. <i>Nanomaterials</i> , 2018, 8, 335.	1.9	33
79	Thermal self-regulatory smart biosensor based on horseradish peroxidase-immobilized phase-change microcapsules for enhancing detection of hazardous substances. <i>Chemical Engineering Journal</i> , 2022, 430, 132982.	6.6	33
80	Cooperative toughening and cooperative compatibilization: the nylon 6/ethylene-co-vinyl acetate/ethylene-co-acrylic acid blends. <i>Polymer</i> , 2001, 42, 9211-9216.	1.8	32
81	Nanoflaky nickel-hydroxide-decorated phase-change microcapsules as smart electrode materials with thermal self-regulation function for supercapacitor application. <i>Renewable Energy</i> , 2021, 174, 557-572.	4.3	32
82	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> , 2021, 13, 41753-41772.	4.0	32
83	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> , 2000, 77, 24-29.	1.3	30
84	Effect of ionomers on mechanical properties, morphology, and rheology of polyoxymethylene and its blends with methyl methacrylate-styrene-butadiene copolymer. <i>European Polymer Journal</i> , 2005, 41, 871-880.	2.6	30
85	Development of photoluminescence phase-change microcapsules for comfort thermal regulation and fluorescent recognition applications in advanced textiles. <i>Journal of Energy Storage</i> , 2022, 49, 104158.	3.9	30
86	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> , 2007, 307, 158-165.	5.0	29
87	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> , 2020, 362, 462-473.	2.1	29
88	Design and construction of mesoporous silica/n-eicosane phase-change nanocomposites for supercooling depression and heat transfer enhancement. <i>Energy</i> , 2019, 188, 116075.	4.5	28
89	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> , 2012, 43, 1947-1958.	3.8	26
90	Fabrication of long glass fiber reinforced polyacetal composites: Mechanical performance, microstructures, and isothermal crystallization kinetics. <i>Polymer Composites</i> , 2015, 36, 1826-1839.	2.3	26

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91	A novel self-thermoregulatory electrode material based on phosphorene-decorated phase-change microcapsules for supercapacitors. <i>Electrochimica Acta</i> , 2020, 354, 136718.	2.6	26
92	Crystallization behavior and foaming properties of polypropylene containing ultra-high molecular weight polyethylene under supercritical carbon dioxide. <i>Journal of Applied Polymer Science</i> , 2011, 119, 1275-1286.	1.3	25
93	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> , 2013, 129, 3502-3511.	1.3	25
94	New Supercapacitors Based on the Synergetic Redox Effect between Electrode and Electrolyte. <i>Materials</i> , 2016, 9, 734.	1.3	25
95	Thermal self-regulatory intelligent biosensor based on carbon-nanotubes-decorated phase-change microcapsules for enhancement of glucose detection. <i>Biosensors and Bioelectronics</i> , 2022, 195, 113586.	5.3	25
96	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> , 2022, 47, 103574.	3.9	23
97	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> , 2021, 562, 150211.	3.1	22
98	An ultrahigh performance supercapacitors based on simultaneous redox in both electrode and electrolyte. <i>Journal of Alloys and Compounds</i> , 2017, 694, 136-144.	2.8	21
99	Design and fabrication of pH-responsive microencapsulated phase change materials for multipurpose applications. <i>Reactive and Functional Polymers</i> , 2019, 140, 111-123.	2.0	21
100	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> , 2022, 608, 1497-1513.	5.0	21
101	Configuration of Multifunctional Polyimide/Graphene/Fe <sub>3</sub> O <sub>4</sub> Hybrid Aerogel-Based Phase-Change Composite Films for Electromagnetic and Infrared Bi-Stealth. <i>Nanomaterials</i> , 2021, 11, 3038.	1.9	21
102	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> , 2016, 120, 26217-26224.	1.5	20
103	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> , 2018, 442, 124-137.	3.1	20
104	High Electrochemical Performance Phosphorus-Oxide Modified Graphene Electrode for Redox Supercapacitors Prepared by One-Step Electrochemical Exfoliation. <i>Nanomaterials</i> , 2018, 8, 417.	1.9	20
105	Polyimide/ladder-like polysilsesquioxane hybrid films: Mechanical performance, microstructure and phase separation behaviors. <i>Composites Part B: Engineering</i> , 2014, 56, 808-814.	5.9	19
106	Mechanical and tribological enhancement of polyoxymethylene-based composites with long basalt fiber through melt pultrusion. <i>Composite Interfaces</i> , 2016, 23, 743-761.	1.3	19
107	Self-assembly fabrication, microstructures and antibacterial performance of layer-structured montmorillonite nanocomposites with cationic silica nanoparticles. <i>RSC Advances</i> , 2017, 7, 31502-31511.	1.7	19
108	Size-tunable CaCO <sub>3</sub> @n-icosane phase-change microcapsules for thermal energy storage. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 640, 128470.	2.3	19

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109	Pomegranate-like phase-change microcapsules based on multichambered TiO <sub>2</sub> shell engulfing multiple n-docosane cores for enhancing heat transfer and leakage prevention. <i>Journal of Energy Storage</i> , 2022, 51, 104406.	3.9	19
110	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> , 2008, 43, 4455-4465.	1.7	18
111	Free-Standing and Heteroatoms-Doped Carbon Nanofiber Networks as a Binder-Free Flexible Electrode for High-Performance Supercapacitors. <i>Nanomaterials</i> , 2019, 9, 1189.	1.9	18
112	Hierarchically nanostructured Co(OH) <sub>2</sub> /MXene/SiO <sub>2</sub> /n-docosane phase-change composites for enhancement of supercapacitor performance under in-situ thermal management. <i>Composites Part B: Engineering</i> , 2022, 242, 110112.	5.9	18
113	Acidity-dependent mesostructure transformation of highly ordered mesoporous silica materials during a two-step synthesis. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 2507-2514.	1.5	17
114	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> , 2019, 11, 1753.	2.0	17
115	New flame retardant epoxy resins based on cyclophosphazene-derived curing agents. <i>Chinese Chemical Letters</i> , 2022, 33, 4026-4032.	4.8	17
116	Effect of nylon 6 on fracture behavior and morphology of tough blends of poly(2,2,4,4-tetrafluoroethyl methacrylate)/poly(ethylene terephthalate). <i>Journal of Applied Polymer Science</i> , 2006, 99, 3336-3343.	1.3	16
117	Preparation of polyimide films via microwave-assisted thermal imidization. <i>RSC Advances</i> , 2019, 9, 7314-7320.	1.7	16
118	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> , 2020, 89, 239-249.	2.9	16
119	Biomass Homogeneity Reinforced Carbon Aerogels Derived Functional Phase-Change Materials for Solar Thermal Energy Conversion and Storage. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	16
120	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> , 2013, 216, 169-177.	2.2	15
121	Title is missing!. <i>Journal of Materials Science</i> , 2001, 36, 5465-5473.	1.7	14
122	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> , 2006, 100, 3498-3509.	1.3	14
123	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> , 2006, 102, 5472-5482.	1.3	14
124	Fabrication, mechanical performance and tribological behaviors of polyacetal-fiber-reinforced metakaolin-based geopolymeric composites. <i>Ceramics International</i> , 2016, 42, 6329-6341.	2.3	14
125	A phosphate-based epoxy resin for flame retardance: synthesis, characterization, and cure properties. <i>Colloid and Polymer Science</i> , 2005, 283, 593-603.	1.0	13
126	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> , 2016, 37, 2705-2718.	2.3	13

#	ARTICLE	IF	CITATIONS
127	High performance nanocomposite electrodes of mesoporous silica platelet-polyaniline synthesized via impregnation polymerization. <i>Polymer Composites</i> , 2017, 38, 1616-1623.	2.3	13
128	Development of Polyoxymethylene/Poly lactide Blends for a Potentially Biodegradable Material: Crystallization Kinetics, Lifespan Prediction, and Enzymatic Degradation Behavior. <i>Polymers</i> , 2019, 11, 1516.	2.0	13
129	Development of sustainable polyoxymethylene-based composites with recycled carbon fibre: mechanical enhancement, morphology, and crystallization kinetics. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 294-309.	1.6	12
130	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> , 2016, 17, 1464-1474.	1.1	12
131	<i>In situ</i> formation of surface-functionalized ionic calcium carbonate nanoparticles with liquid-like behaviours and their electrical properties. <i>Royal Society Open Science</i> , 2018, 5, 170732.	1.1	12
132	Mechanical properties, impact fracture behavior, and morphology of long-polyimide-fiber-reinforced poly(butylene terephthalate) composites. <i>Journal of Composite Materials</i> , 2017, 51, 3425-3439.	1.2	11
133	Regulating the electrical bistable memory characteristics in functional polyimides by varying the spatial position of the electron-donating species. <i>European Polymer Journal</i> , 2017, 95, 186-194.	2.6	11
134	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> , 2017, 146, 1-6.	2.0	11
135	Electrochemically prepared black phosphorene micro-powder as flame retardant for epoxy resin. <i>Composite Interfaces</i> , 2021, 28, 693-705.	1.3	11
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138	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> , 2017, 437, 26-36.	1.0	9
139	A two-step synthesis of well-ordered cubic mesoporous silica materials under mildly acidic conditions. <i>Microporous and Mesoporous Materials</i> , 2008, 108, 183-192.	2.2	8
140	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> , 2012, 51, 14047-14060.	1.8	8
141	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> , 2018, 31, 223-245.	2.6	8
142	Preparation, morphology, and properties of multilamellar barrier materials based on blends of high-density polyethylene and copolyester. <i>Journal of Applied Polymer Science</i> , 2006, 101, 3791-3799.	1.3	6
143	Synthesis and characterization of ordered and cubic mesoporous silica crystals under a moderately acidic condition. <i>Journal of Materials Science</i> , 2007, 42, 465-471.	1.7	6
144	Facile preparation of nylon 6 nanocomposites based on clay reinforcement and core-shell latex toughening: Morphology, properties, and impact fracture behavior. <i>Journal of Applied Polymer Science</i> , 2011, 121, 541-553.	1.3	6

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146	Modification of recycled polycarbonate with core-shell structured latexes for enhancement of impact resistance and flame retardancy. <i>Journal of Applied Polymer Science</i> , 2010, 116, 2451-2464.	1.3	4
147	Microstructure evolution and properties of polyimide fibers containing trifluoromethyl units. <i>High Performance Polymers</i> , 2020, 32, 39-46.	0.8	4
148	A new synthesis of lamellar-mesostructured silica by using poly(ethylene glycol) distearate as template. <i>Materials Research Bulletin</i> , 2008, 43, 2979-2985.	2.7	3
149	Tuning the Electrical Memory Behavior from Nonvolatile to Volatile in Functional Copolyimides Bearing Varied Fluorene and Pyrene Moieties. <i>Journal of Electronic Materials</i> , 2017, 46, 2011-2020.	1.0	3
150	Preparation and Microstructure Control of PMDA/ODA Polyimide Hollow Fibers. <i>Fibers and Polymers</i> , 2020, 21, 944-953.	1.1	3
151	Preparation and properties of novel plastisols based on acrylic core-shell lattices. <i>Colloid and Polymer Science</i> , 2004, 283, 98-106.	1.0	2
152	Carbonization behavior of polyimide films hybrid with different metal catalyst. <i>Polymer Science - Series B</i> , 2017, 59, 430-436.	0.3	1
153	Electromechanical properties of Nafion/carbon nanotube composites enhanced by black phosphorus. <i>Composite Interfaces</i> , 2021, 28, 671-681.	1.3	1
154	Synthesis, Characterization, and Cure Properties of a Halogen-Free Phosphate-Based Inherently Flame Retardant Epoxy Resin. <i>ACS Symposium Series</i> , 2005, , 266-279.	0.5	0