

Xiaodong Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

152
papers

5,868
citations

43
h-index

71
g-index

154
ext. papers

7,099
ext. citations

5.6
avg, IF

6.51
L-index

#	Paper	IF	Citations
152	Size-tunable CaCO ₃ @n-eicosane phase-change microcapsules for thermal energy storage. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 640, 128470	5.1	5
151	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	7.8	4
150	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	5.8	3
149	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	6.4	11
148	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	8.6	15
147	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	14.7	5
146	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	11.8	3
145	Pomegranate-like phase-change microcapsules based on multichambered TiO ₂ shell engulfing multiple n-docosane cores for enhancing heat transfer and leakage prevention. <i>Journal of Energy Storage</i> , 2022 , 51, 104406	7.8	1
144	Polyimide/MXene hybrid aerogel-based phase-change composites for solar-driven seawater desalination. <i>Chemical Engineering Journal</i> , 2022 , 440, 135862	14.7	11
143	Magnetic field-assisted acceleration of energy storage based on microencapsulation of phase change material with CaCO ₃ /Fe ₃ O ₄ composite shell. <i>Journal of Energy Storage</i> , 2021 , 103574	7.8	5
142	Configuration of Multifunctional Polyimide/Graphene/FeO Hybrid Aerogel-Based Phase-Change Composite Films for Electromagnetic and Infrared Bi-Stealth. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
141	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> , 2021 , 608, 1497-1513	9.3	17
140	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	6.4	15
139	Immobilization of laccase on phase-change microcapsules as self-thermoregulatory enzyme carrier for biocatalytic enhancement. <i>Chemical Engineering Journal</i> , 2021 , 405, 126695	14.7	21
138	Electrochemically prepared black phosphorene micro-powder as flame retardant for epoxy resin. <i>Composite Interfaces</i> , 2021 , 28, 693-705	2.3	4
137	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	9.3	29
136	Electromechanical properties of Nafion/carbon nanotube composites enhanced by black phosphorus. <i>Composite Interfaces</i> , 2021 , 28, 671-681	2.3	0

135	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	6.4	12
134	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	8.1	7
133	Innovative Integration of Phase-Change Microcapsules with Metal-Organic Frameworks into an Intelligent Biosensing System for Enhancing Dopamine Detection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41753-41772	9.5	8
132	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	9.3	13
131	Surface construction of Ni(OH) ₂ nanoflowers on phase-change microcapsules for enhancement of heat transfer and thermal response. <i>Applied Surface Science</i> , 2021 , 562, 150211	6.7	8
130	Microencapsulating n-docosane phase change material into CaCO ₃ /Fe ₃ O ₄ composites for high-efficient utilization of solar photothermal energy. <i>Renewable Energy</i> , 2021 , 179, 47-64	8.1	22
129	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	6.1	13
128	Preparation and Microstructure Control of PMDA/ODA Polyimide Hollow Fibers. <i>Fibers and Polymers</i> , 2020 , 21, 944-953	2	2
127	Construction of polyaniline/carbon nanotubes-functionalized phase-change microcapsules for thermal management application of supercapacitors. <i>Chemical Engineering Journal</i> , 2020 , 396, 125317	14.7	43
126	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	6.3	9
125	A novel self-thermoregulatory electrode material based on phosphorene-decorated phase-change microcapsules for supercapacitors. <i>Electrochimica Acta</i> , 2020 , 354, 136718	6.7	12
124	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	10.7	29
123	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	5.2	17
122	Microstructure evolution and properties of polyimide fibers containing trifluoromethyl units. <i>High Performance Polymers</i> , 2020 , 32, 39-46	1.6	4
121	Free-Standing and Heteroatoms-Doped Carbon Nanofiber Networks as a Binder-Free Flexible Electrode for High-Performance Supercapacitors. <i>Nanomaterials</i> , 2019 , 9,	5.4	9
120	Design and construction of mesoporous silica/n-eicosane phase-change nanocomposites for supercooling depression and heat transfer enhancement. <i>Energy</i> , 2019 , 188, 116075	7.9	20
119	Molecularly Imprinted Phase-Change Microcapsule System for Bifunctional Applications in Waste Heat Recovery and Targeted Pollutant Removal. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37644-37664	9.5	27
118	Development of Polyoxymethylene/Poly lactide Blends for a Potentially Biodegradable Material: Crystallization Kinetics, Lifespan Prediction, and Enzymatic Degradation Behavior. <i>Polymers</i> , 2019 , 11,	4.5	8

117	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	6.4	38
116	Morphology-controlled synthesis of microencapsulated phase change materials with TiO ₂ shell for thermal energy harvesting and temperature regulation. <i>Energy</i> , 2019 , 172, 599-617	7.9	42
115	Design and fabrication of pH-responsive microencapsulated phase change materials for multipurpose applications. <i>Reactive and Functional Polymers</i> , 2019 , 140, 111-123	4.6	14
114	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	5.8	114
113	Preparation of polyimide films microwave-assisted thermal imidization.. <i>RSC Advances</i> , 2019 , 9, 7314-7320	3.7	9
112	Electrochemical prepared phosphorene as a cathode for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 26-34	5.7	28
111	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,	4.5	8
110	Innovative design of superhydrophobic thermal energy-storage materials by microencapsulation of n-docosane with nanostructured ZnO/SiO ₂ shell. <i>Applied Energy</i> , 2019 , 237, 549-565	10.7	56
109	Tailoring of bifunctional microencapsulated phase change materials with CdS/SiO ₂ double-layered shell for solar photocatalysis and solar thermal energy storage. <i>Applied Thermal Engineering</i> , 2018 , 134, 603-614	5.8	53
108	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	3.3	6
107	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	2.9	45
106	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	6.7	12
105	Smart design and construction of nanoflake-like MnO ₂ /SiO ₂ hierarchical microcapsules containing phase change material for in-situ thermal management of supercapacitors. <i>Energy Conversion and Management</i> , 2018 , 164, 311-328	10.6	43
104	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	1.9	7
103	High Electrochemical Performance Phosphorus-Oxide Modified Graphene Electrode for Redox Supercapacitors Prepared by One-Step Electrochemical Exfoliation. <i>Nanomaterials</i> , 2018 , 8,	5.4	9
102	High Performance of Supercapacitor from PEDOT:PSS Electrode and Redox Iodide Ion Electrolyte. <i>Nanomaterials</i> , 2018 , 8,	5.4	23
101	High performance nanocomposite electrodes of mesoporous silica platelet-polyaniline synthesized via impregnation polymerization. <i>Polymer Composites</i> , 2017 , 38, 1616-1623	3	12
100	Fabrication of Graphene/TiO ₂ /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	8.3	83

99	Asymmetric isomerization: an efficient strategy to tune the electrical resistive memory behaviors of functional polyimides containing N-phenylcarbazole moieties. <i>RSC Advances</i> , 2017 , 7, 23550-23559	3.7	8
98	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	6.4	80
97	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	6.7	31
96	New evidence on the correlation between lattice fringe with catalytic performance for suprafacial CO and intrafacial CH ₄ oxidations over Co ₃ O ₄ by isotopic ¹⁸ O ₂ exchange. <i>Molecular Catalysis</i> , 2017 , 437, 26-36	3.3	5
95	Fabrication of microencapsulated phase change materials with TiO ₂ /Fe ₃ O ₄ hybrid shell as thermoregulatory enzyme carriers: A novel design of applied energy microsystem for bioapplications. <i>Applied Energy</i> , 2017 , 201, 20-33	10.7	58
94	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	2.7	9
93	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	1.9	3
92	Carbonization behavior of polyimide films hybrid with different metal catalyst. <i>Polymer Science - Series B</i> , 2017 , 59, 430-436	0.8	1
91	Self-assembly fabrication, microstructures and antibacterial performance of layer-structured montmorillonite nanocomposites with cationic silica nanoparticles. <i>RSC Advances</i> , 2017 , 7, 31502-31511	3.7	14
90	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	8.3	31
89	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	5.2	10
88	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	4.6	8
87	An ultrahigh performance supercapacitors based on simultaneous redox in both electrode and electrolyte. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 136-144	5.7	20
86	Ultra High Electrical Performance of Nano Nickel Oxide and Polyaniline Composite Materials. <i>Polymers</i> , 2017 , 9,	4.5	26
85	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	3	10
84	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	3.8	16
83	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	2.7	10
82	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	7.9	77

81	Fabrication, mechanical performance and tribological behaviors of polyacetal-fiber-reinforced metakaolin-based geopolymeric composites. <i>Ceramics International</i> , 2016 , 42, 6329-6341	5.1	12
80	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	7.9	35
79	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	7.9	56
78	New Supercapacitors Based on the Synergetic Redox Effect between Electrode and Electrolyte. <i>Materials</i> , 2016 , 9,	3.5	19
77	Mechanical and tribological enhancement of polyoxymethylene-based composites with long basalt fiber through melt pultrusion. <i>Composite Interfaces</i> , 2016 , 23, 743-761	2.3	13
76	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	4.7	42
75	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	2.9	39
74	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	10.6	96
73	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	2.9	28
72	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	6.4	80
71	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	8.1	68
70	Fabrication of long glass fiber reinforced polyacetal composites: Mechanical performance, microstructures, and isothermal crystallization kinetics. <i>Polymer Composites</i> , 2015 , 36, 1826-1839	3	21
69	High Specific Capacitance of Polyaniline/Mesoporous Manganese Dioxide Composite Using KI-H2SO4 Electrolyte. <i>Polymers</i> , 2015 , 7, 1939-1953	4.5	58
68	Preparation and Electrochemical Characterization of Mesoporous Polyaniline-Silica Nanocomposites as an Electrode Material for Pseudocapacitors. <i>Materials</i> , 2015 , 8, 1369-1383	3.5	41
67	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	10.7	149
66	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	10.7	305
65	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	4.7	84
64	Design and synthesis of magnetic microcapsules based on n-eicosane core and Fe3O4/SiO2 hybrid shell for dual-functional phase change materials. <i>Applied Energy</i> , 2014 , 134, 456-468	10.7	125

63	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	8.3	39
62	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	7.9	155
61	Self-Assembly Synthesis of Microencapsulated n-Eicosane Phase-Change Materials with Crystalline-Phase-Controllable Calcium Carbonate Shell. <i>Energy & Fuels</i> , 2014 , 28, 3519-3529	4.1	77
60	Polyimide/ladder-like polysilsesquioxane hybrid films: Mechanical performance, microstructure and phase separation behaviors. <i>Composites Part B: Engineering</i> , 2014 , 56, 808-814	10	15
59	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	2.9	10
58	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 & Engineering Chemistry Research</i> , 2013 , 52, 10160-10171	3.9	80
57	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	3.2	34
56	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	2.6	58
55	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	3.5	29
54	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	2.9	22
53	High-performance copolyimide fibers containing quinazolinone moiety: Preparation, structure and properties. <i>Polymer</i> , 2013 , 54, 1700-1708	3.9	82
52	CO catalytic combustion over Co/Al ₂ O ₃ : Influence of diverse textural properties of alumina supports on the related oxidation activities. <i>Catalysis Today</i> , 2013 , 216, 169-177	5.3	11
51	Isothermal Crystallization Kinetics, Morphology, and Mechanical Properties of Biocomposites Based on Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) and Recycled Carbon Fiber. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 14047-14060	3.9	7
50	Novel spirocyclic phosphazene-based epoxy resin for halogen-free fire resistance: synthesis, curing behaviors, and flammability characteristics. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4047-61	9.5	108
49	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	8.4	21
48	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	3.3	53
47	Novel Cyclolinear Cyclotriphosphazene-Linked Epoxy Resin for Halogen-Free Fire Resistance: Synthesis, Characterization, and Flammability Characteristics. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 15064-15074	3.9	62
46	Synthesis, characterization and curing properties of a novel cyclolinear phosphazene-based epoxy resin for halogen-free flame retardancy and high performance. <i>RSC Advances</i> , 2012 , 2, 5789	3.7	65

45	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> , 2012 , 52, 927-936	2.3	5
44	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	5.1	126
43	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	10	38
42	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, 384-9	4.8	55
41	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	2.9	23
40	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	2.9	6
39	Preparation and characterization of polyimide/ladder like polysiloxane hybrid films. <i>Materials Letters</i> , 2010 , 64, 2710-2713	3.3	7
38	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, NA-NA	2.9	2
37	Flammability characteristics and performance of halogen-free flame-retarded polyoxymethylene based on phosphorus/nitrogen synergistic effects. <i>Journal of Applied Polymer Science</i> , 2010 , 118, 611-622	2.9	37
36	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, 246-55	9.3	331
35	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	4.7	176
34	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	6.4	195
33	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	5.1	198
32	A new synthesis of lamellar-mesostructured silica by using poly(ethylene glycol) distearate as template. <i>Materials Research Bulletin</i> , 2008 , 43, 2979-2985	5.1	3
31	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	3.3	38
30	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	4.3	17
29	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	4.3	38
28	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	5.1	47

27	Preparation, microstructure, and properties of novel low-brominated epoxy/mesoporous silica composites. <i>European Polymer Journal</i> , 2008 , 44, 1414-1427	5.2	45
26	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	5.3	8
25	Novel low-brominated polyimide/mesoporous silica composite films: Preparation, microstructure, and properties. <i>Polymer</i> , 2007 , 48, 318-329	3.9	118
24	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, 158-65	9.3	26
23	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	4.3	5
22	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	3.9	15
21	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	2.9	11
20	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> , 2006 , 99, 3336-3343	2.9	16
19	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	2.9	5
18	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	2.9	11
17	Synthesis, Characterization, and Cure Properties of a Halogen-Free Phosphate-Based Inherently Flame Retardant Epoxy Resin. <i>ACS Symposium Series</i> , 2005 , 266-279	0.4	
16	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	4.5	41
15	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	5.2	28
14	A phosphate-based epoxy resin for flame retardance: synthesis, characterization, and cure properties. <i>Colloid and Polymer Science</i> , 2005 , 283, 593-603	2.4	12
13	Preparation and properties of novel plastisols based on acrylic core-shell lattices. <i>Colloid and Polymer Science</i> , 2004 , 283, 98-106	2.4	2
12	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	3.3	85
11	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	2.9	99
10	Synthesis, characterization, and cure properties of phosphorus-containing epoxy resins for flame retardance. <i>European Polymer Journal</i> , 2004 , 40, 385-395	5.2	112

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