

Haifeng Shi

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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.

76
papers

1,972
citations

27
h-index

41
g-index

78
ext. papers

2,238
ext. citations

6.2
avg, IF

5.13
L-index

#	Paper	IF	Citations
76	Frustrated crystallisation and hierarchical self-assembly behaviour of comb-like polymers. <i>Chemical Society Reviews</i> , 2013 , 42, 2075-99	58.5	101
75	Novel acid-base hybrid membrane based on amine-functionalized reduced graphene oxide and sulfonated polyimide for vanadium redox flow battery. <i>Electrochimica Acta</i> , 2015 , 158, 24-34	6.7	95
74	Novel graphitic carbon nitride nanosheets/sulfonated poly(ether ether ketone) acid-base hybrid membrane for vanadium redox flow battery. <i>Journal of Membrane Science</i> , 2017 , 525, 220-228	9.6	88
73	Fabrication and morphological characterization of microencapsulated phase change materials (MicroPCMs) and macrocapsules containing MicroPCMs for thermal energy storage. <i>Energy</i> , 2012 , 38, 249-254	7.9	87
72	Enhanced stress transfer and thermal properties of polyimide composites with covalent functionalized reduced graphene oxide. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 68, 140-148	8.4	82
71	Packing mode and conformational transition of alkyl side chains in N-alkylated poly(p-benzamide) comb-like polymer. <i>Polymer</i> , 2004 , 45, 6299-6307	3.9	77
70	Phase Transition and Conformational Variation of N-Alkylated Branched Poly(ethyleneimine) Comblike Polymer. <i>Macromolecules</i> , 2004 , 37, 9933-9940	5.5	63
69	Novel sulfonated polyimide/zwitterionic polymer-functionalized graphene oxide hybrid membranes for vanadium redox flow battery. <i>Journal of Power Sources</i> , 2015 , 299, 255-264	8.9	61
68	Sulfonated poly(ether ether ketone)-based hybrid membranes containing polydopamine-decorated multiwalled carbon nanotubes with acid-base pairs for all vanadium redox flow battery. <i>Journal of Membrane Science</i> , 2018 , 564, 916-925	9.6	61
67	Crystallization behaviors of n-nonadecane in confined space: observation of metastable phase induced by surface freezing. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14279-82	3.4	58
66	Fabrication and characterization of microencapsulated phase change material with low supercooling for thermal energy storage. <i>Energy</i> , 2014 , 68, 160-166	7.9	57
65	Composite macrocapsule of phase change materials/expanded graphite for thermal energy storage. <i>Energy</i> , 2013 , 57, 607-614	7.9	56
64	Sulfonated poly(ether ether ketone)/sulfonated graphene oxide hybrid membrane for vanadium redox flow battery. <i>Electrochimica Acta</i> , 2018 , 282, 437-447	6.7	52
63	An ultra-high ion selective hybrid proton exchange membrane incorporated with zwitterion-decorated graphene oxide for vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12669-12680	13	48
62	A sulfonated poly(ether ether ketone)/amine-functionalized graphene oxide hybrid membrane for vanadium redox flow batteries. <i>RSC Advances</i> , 2016 , 6, 100262-100270	3.7	44
61	Structure and thermal performance of poly(ethylene glycol) alkyl ether (Brij)/porous silica (MCM-41) composites as shape-stabilized phase change materials. <i>Thermochimica Acta</i> , 2013 , 570, 1-7	2.9	44
60	Sulfonated polysulfone proton exchange membrane influenced by a varied sulfonation degree for vanadium redox flow battery. <i>Journal of Membrane Science</i> , 2019 , 584, 173-180	9.6	42

59	Shape-stabilized phase change materials based on poly(ethylene-graft-maleic anhydride)-g-alkyl alcohol comb-like polymers. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 21-28	6.4	41
58	Preparation and properties of poly(vinyl alcohol)-g-octadecanol copolymers based solid-solid phase change materials. <i>Materials Chemistry and Physics</i> , 2011 , 131, 108-112	4.4	41
57	Preparation of Surface Porous Microcapsules Templated by Self-assembly of Nonionic Surfactant Micelles. <i>Chemistry of Materials</i> , 2008 , 20, 3099-3104	9.6	40
56	Effect of graphene oxide nanoplatelets on the thermal characteristics and shape-stabilized performance of poly(styrene-co-maleic anhydride)-g-octadecanol comb-like polymeric phase change materials. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 149, 40-48	6.4	36
55	Confined crystallization and phase transition in semi-rigid chitosan containing long chain alkyl groups. <i>CrystEngComm</i> , 2011 , 13, 561-567	3.3	33
54	Effect of Main-Chain Rigidity on the Phase Transitional Behavior of Comblike Polymers. <i>Macromolecules</i> , 2007 , 40, 3198-3203	5.5	32
53	Structure and thermal performance of poly(styrene-co-maleic anhydride)-g-alkyl alcohol comb-like copolymeric phase change materials. <i>Thermochimica Acta</i> , 2013 , 564, 34-38	2.9	31
52	Sulfonated poly(ether ether ketone)/amine-functionalized graphene oxide hybrid membrane with various chain lengths for vanadium redox flow battery: A comparative study. <i>Journal of Membrane Science</i> , 2020 , 610, 118232	9.6	30
51	Thermal performance and shape-stabilization of comb-like polymeric phase change materials enhanced by octadecylamine-functionalized graphene oxide. <i>Energy Conversion and Management</i> , 2018 , 168, 119-127	10.6	29
50	Order-disorder transition in eicosylated polyethyleneimine comblike polymers. <i>Polymer</i> , 2007 , 48, 2762-2767	3.7	28
49	Multi-functional microcapsules produced by aerosol reaction. <i>Journal of Aerosol Science</i> , 2008 , 39, 1089-1098	10.9	27
48	Fabrication, characterization, and supercooling suppression of nanoencapsulated n-octadecane with methyl methacrylate-octadecyl methacrylate copolymer shell. <i>Colloid and Polymer Science</i> , 2013 , 291, 1705-1712	2.4	26
47	Light-to-Thermal Conversion and Thermoregulated Capability of Coaxial Fibers with a Combined Influence from Comb-like Polymeric Phase Change Material and Carbon Nanotube. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14150-14158	9.5	24
46	Sulfonated Poly(ether ether ketone) Hybrid Membranes with Amphoteric Graphene Oxide Nanosheets as Interfacial Reinforcement for Vanadium Redox Flow Battery. <i>Energy & Fuels</i> , 2020 , 34, 2452-2461	4.1	24
45	High performance acid-base composite membranes from sulfonated polysulfone containing graphitic carbon nitride nanosheets for vanadium redox flow battery. <i>Journal of Membrane Science</i> , 2019 , 591, 117332	9.6	23
44	Fabrication and properties of poly(polyethylene glycol octadecyl ether methacrylate). <i>Thermochimica Acta</i> , 2013 , 574, 116-120	2.9	23
43	Nanoconfinement crystallization of frustrated alkyl groups: crossover of mesophase to crystalline structure. <i>Chemical Communications</i> , 2011 , 47, 3825-7	5.8	21
42	Effect of N-isopropylacrylamide on the preparation and properties of microencapsulated phase change materials. <i>Energy</i> , 2016 , 106, 221-230	7.9	19

41	Crystalline structure and phase behavior of N-alkylated polypyrrole comb-like polymers. <i>CrystEngComm</i> , 2014 , 16, 7090	3.3	18
40	Thermo-regulated sheath/core submicron fiber with poly(diethylene glycol hexadecyl ether acrylate) as a core. <i>Textile Reseach Journal</i> , 2016 , 86, 493-501	1.7	17
39	Mesogen-Free Supramolecular Liquid Crystalline State Formed by a Polyelectrolyte/Amphiphile Complex. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 226-231	4.8	17
38	Hybrid proton exchange membrane of sulfonated poly(ether ether ketone) containing polydopamine-coated carbon nanotubes loaded phosphotungstic acid for vanadium redox flow battery. <i>Journal of Membrane Science</i> , 2021 , 625, 119159	9.6	17
37	Structure and Properties of Sulfonated Poly(ether ether ketone) Hybrid Membrane with Polyaniline-Chains-Modified Graphene Oxide and Its Application for Vanadium Redox Flow Battery. <i>ChemistrySelect</i> , 2018 , 3, 9249-9258	1.8	15
36	Crystal structure and thermal property of polyethylene glycol octadecyl ether. <i>Thermochimica Acta</i> , 2013 , 558, 83-86	2.9	15
35	Fabrication and Performances of Microencapsulated n-Alkanes with Copolymers Having n-Octadecyl Side Chains As Shells. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 1678-1687	3.9	14
34	Chain packing and phase transition of N-hexacosylated polyethyleneimine comb-like polymer: A combined investigation by synchrotron X-ray scattering and FTIR spectroscopy. <i>Polymer</i> , 2013 , 54, 6261-6266	3.9	14
33	Phase Transition and Side-Chain Crystallization of Poly(methyl vinyl ether-alt-maleic anhydride)-g-Alkyl Alcohol Comb-like Polymers. <i>Macromolecules</i> , 2018 , 51, 8922-8931	5.5	14
32	Thermal properties and shape stabilization of epoxidized methoxy polyethylene glycol composite PCMs tailored by polydopamine-functionalized graphene oxide. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 208, 110388	6.4	13
31	Thermal performance and crystallization behavior of poly(ethylene glycol) hexadecyl ether in confined environment. <i>Polymer International</i> , 2014 , 63, 982-988	3.3	13
30	Transcrystalline morphology of nylon 6 on the surface of aramid fibers. <i>Polymer International</i> , 2004 , 53, 1672-1676	3.3	11
29	Fabrication and properties of poly(polyethylene glycol n-alkyl ether vinyl ether)s as polymeric phase change materials. <i>Thermochimica Acta</i> , 2016 , 633, 161-169	2.9	11
28	Thermal performance and phase transformation of S-alkylated poly(vinyl chloride) comb-like polymers. <i>Polymer</i> , 2018 , 153, 362-368	3.9	11
27	Structure and properties of mixtures based on long chain polyacrylate and 1-alcohol composites. <i>Materials Chemistry and Physics</i> , 2014 , 143, 1069-1074	4.4	10
26	Form-stable and light-to-thermal conversion properties of comb-like polymer composite phase change materials for thermal management application. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 217, 110704	6.4	10
25	High-performance composite membrane based on synergistic main-chain/side-chain proton conduction channels for the vanadium redox flow battery. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4240-4252 ¹⁰	13	10
24	On the crystallization behavior of a poly(stearyl methacrylate) comb-like polymer inside a nanoscale environment. <i>CrystEngComm</i> , 2018 , 20, 7348-7356	3.3	9

23	Preparation and Characterization of Octadecylated Poly(vinyl Alcohol) Polymers. <i>Advanced Materials Research</i> , 2012 , 482-484, 1921-1924	0.5	8
22	Side-chain crystallization and segment packing of poly(isobutylene-alt-maleic anhydride)-g-alkyl alcohol comb-like polymers. <i>Polymer</i> , 2020 , 202, 122721	3.9	7
21	Conformational variation and crystalline phase transformation of low syndiotactic polypropylene films in stretched and stress-relaxed states. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 2924-2936	2.6	6
20	Fabrication, Characterization and Suppression of Supercooling in Microencapsulated n-Octadecane with Methyl Methacrylate-Octadecyl Methacrylate Copolymer as Shell. <i>Science of Advanced Materials</i> , 2014 , 6, 120-127	2.3	6
19	Enhanced thermal management performance of comb-like polymer/boron nitride composite phase change materials for the thermoregulated fabric application. <i>Journal of Energy Storage</i> , 2021 , 40, 102826	7.8	6
18	Microencapsulation of vitamin C by interfacial/emulsion reaction: characterization of release properties of microcapsules. <i>Journal of Controlled Release</i> , 2011 , 152 Suppl 1, e78-9	11.7	5
17	An enhanced stability and efficiency of SPEEK-based composite membrane influenced by amphoteric side-chain polymer for vanadium redox flow battery. <i>Journal of Membrane Science</i> , 2022 , 643, 120011	9.6	5
16	Nucleation and mechanical enhancements in poly(butylene terephthalate) nanocomposites influenced by functionalized graphene oxide. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	4
15	Thermal Behaviors of N-Octadecylated Poly(Ethyleneimine) with Different Grafting Ratios. <i>Advanced Materials Research</i> , 2011 , 332-334, 2085-2088	0.5	4
14	Effect of manufacturing parameters on the release profiles of casein-loaded alginate microspheres prepared by emulsification/internal gelation. <i>Journal of Controlled Release</i> , 2011 , 152 Suppl 1, e154-5	11.7	3
13	Facile Synthesis of Highly Photoactive ATO-Based Microcapsule for Solar Energy Harvesting. <i>Science of Advanced Materials</i> , 2013 , 5, 1498-1503	2.3	3
12	Crystallization and thermal performance of poly(acrylonitrile-co-alkyl acrylate) comb-like polymeric phase change materials with various side-chain lengths. <i>CrystEngComm</i> , 2020 , 22, 5799-5808	3.3	3
11	Comb-Like Polymers 2017 , 1-45		2
10	Ultrahigh proton conductive nanofibrous composite membrane with an interpenetrating framework and enhanced acid-base interfacial layers for vanadium redox flow battery. <i>Journal of Membrane Science</i> , 2022 , 647, 120327	9.6	2
9	Coaxial Electrospun Thermo-Regulated Sheath/Core Nanofibers with a Comb-Like Polymer Core. <i>Science of Advanced Materials</i> , 2014 , 6, 2640-2645	2.3	2
8	Improved proton conductivity and structure stability of an SPEEK/SPPS blend membrane for vanadium redox flow batteries. <i>Materials Chemistry Frontiers</i> ,	7.8	2
7	Sulfonated poly (ether ketone)/sulfonated titanium dioxide hybrid membrane with high selectivity and good stability for vanadium redox flow battery. <i>Journal of Energy Storage</i> , 2022 , 45, 103705	7.8	1
6	EFFECT OF ALKYLATION DEGREE ON THE STRUCTURE OF N-OCTADECYLATED POLYETHYLENEIMINE COMB-LIKE POLYMERS. <i>Acta Polymerica Sinica</i> , 2013 , 013, 56-62		1

- 5 Side-chain crystallization and phase transition of poly[styrene-co-(maleic anhydride)]-g-alkylamine comb-like polymers. *Polymer International*, 3:3 1
- 4 Phase Transition and Crystallization of Bio-based Comb-like Polymers Based on Renewable Castor Oil-Derived Epoxides and CO₂. *Macromolecules*, **2021**, 54, 8503-8511 5:5 0
- 3 Fabrication of Thermochromatic Microencapsulated Phase Change Materials. *Advanced Materials Research*, **2011**, 332-334, 1856-1859 0:5
- 2 Preparation and crystalline transformation of functionalized poly(1-butene) containing PFPU and mPEG side chain.. *RSC Advances*, **2021**, 11, 37317-37324 3:7
- 1 Graphene/polymer composite membranes for vanadium redox flow battery applications **2022**, 487-520