Haifeng Shi

List of Publications by Year
in descending order

75	2,517	147566	214527
papers	citations	31 h-index	47 g-index

78	78	78	2024
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Frustrated crystallisation and hierarchical self-assembly behaviour of comb-like polymers. Chemical Society Reviews, 2013, 42, 2075-2099.	18.7	118
2	Novel graphitic carbon nitride nanosheets/sulfonated poly(ether ether ketone) acid-base hybrid membrane for vanadium redox flow battery. Journal of Membrane Science, 2017, 525, 220-228.	4.1	116
3	Novel acid-base hybrid membrane based on amine-functionalized reduced graphene oxide and sulfonated polyimide for vanadium redox flow battery. Electrochimica Acta, 2015, 158, 24-34.	2.6	108
4	Fabrication and morphological characterization of microencapsulated phase change materials (MicroPCMs) and macrocapsules containing MicroPCMs for thermal energy storage. Energy, 2012, 38, 249-254.	4.5	95
5	Enhanced stress transfer and thermal properties of polyimide composites with covalent functionalized reduced graphene oxide. Composites Part A: Applied Science and Manufacturing, 2015, 68, 140-148.	3.8	93
6	Packing mode and conformational transition of alkyl side chains in N-alkylated poly(p-benzamide) comb-like polymer. Polymer, 2004, 45, 6299-6307.	1.8	83
7	Fabrication and characterization of microencapsulated phase change material with low supercooling for thermal energy storage. Energy, 2014, 68, 160-166.	4.5	78
8	Sulfonated poly(ether ether ketone)-based hybrid membranes containing polydopamine-decorated multiwalled carbon nanotubes with acid-base pairs for all vanadium redox flow battery. Journal of Membrane Science, 2018, 564, 916-925.	4.1	77
9	Novel sulfonated polyimide/zwitterionic polymer-functionalized graphene oxide hybrid membranes for vanadium redox flow battery. Journal of Power Sources, 2015, 299, 255-264.	4.0	75
10	An ultra-high ion selective hybrid proton exchange membrane incorporated with zwitterion-decorated graphene oxide for vanadium redox flow batteries. Journal of Materials Chemistry A, 2019, 7, 12669-12680.	5.2	73
11	Phase Transition and Conformational Variation of N-Alkylated Branched Poly(ethyleneimine) Comblike Polymer. Macromolecules, 2004, 37, 9933-9940.	2.2	71
12	Sulfonated polysulfone proton exchange membrane influenced by a varied sulfonation degree for vanadium redox flow battery. Journal of Membrane Science, 2019, 584, 173-180.	4.1	67
13	Sulfonated poly(ether ether ketone)/sulfonated graphene oxide hybrid membrane for vanadium redox flow battery. Electrochimica Acta, 2018, 282, 437-447.	2.6	62
14	Composite macrocapsule of phase change materials/expanded graphite for thermal energy storage. Energy, 2013, 57, 607-614.	4.5	61
15	Crystallization Behaviors ofn-Nonadecane in Confined Space:Â Observation of Metastable Phase Induced by Surface Freezing. Journal of Physical Chemistry B, 2006, 110, 14279-14282.	1.2	60
16	Sulfonated poly(ether ether ketone)/amine-functionalized graphene oxide hybrid membrane with various chain lengths for vanadium redox flow battery: A comparative study. Journal of Membrane Science, 2020, 610, 118232.	4.1	53
17	A sulfonated poly(ether ether ketone)/amine-functionalized graphene oxide hybrid membrane for vanadium redox flow batteries. RSC Advances, 2016, 6, 100262-100270.	1.7	49
18	Structure and thermal performance of poly(ethylene glycol) alkyl ether (Brij)/porous silica (MCM-41) composites as shape-stabilized phase change materials. Thermochimica Acta, 2013, 570, 1-7.	1.2	48

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19	Preparation and properties of poly(vinyl alcohol)-g-octadecanol copolymers based solidâ€“solid phase change materials. Materials Chemistry and Physics, 2011, 131, 108-112.	2.0	45
20	Sulfonated Poly(ether ether ketone) Hybrid Membranes with Amphoteric Graphene Oxide Nanosheets as Interfacial Reinforcement for Vanadium Redox Flow Battery. Energy & Fuels, 2020, 34, 2452-2461.	2.5	45
21	Hybrid proton exchange membrane of sulfonated poly(ether ether ketone) containing polydopamine-coated carbon nanotubes loaded phosphotungstic acid for vanadium redox flow battery. Journal of Membrane Science, 2021, 625, 119159.	4.1	45
22	Shape-stabilized phase change materials based on poly(ethylene-graft-maleic anhydride)-g-alkyl alcohol comb-like polymers. Solar Energy Materials and Solar Cells, 2015, 143, 21-28.	3.0	44
23	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. Solar Energy Materials and Solar Cells, 2016, 149, 40-48.	3.0	41
24	Preparation of Surface Porous Microcapsules Templated by Self-assembly of Nonionic Surfactant Micelles. Chemistry of Materials, 2008, 20, 3099-3104.	3.2	40
25	Multi-functional microcapsules produced by aerosol reaction. Journal of Aerosol Science, 2008, 39, 1089-1098.	1.8	37
26	Confined crystallization and phase transition in semi-rigid chitosan containing long chain alkyl groups. CrystEngComm, 2011, 13, 561-567.	1.3	36
27	Effect of Main-Chain Rigidity on the Phase Transitional Behavior of Comblike Polymers. Macromolecules, 2007, 40, 3198-3203.	2.2	35
28	Thermal performance and shape-stabilization of comb-like polymeric phase change materials enhanced by octadecylamine-functionalized graphene oxide. Energy Conversion and Management, 2018, 168, 119-127.	4.4	35
29	Structure and thermal performance of poly(styrene-co-maleic anhydride)-g-alkyl alcohol comb-like copolymeric phase change materials. Thermochimica Acta, 2013, 564, 34-38.	1.2	34
30	Light-to-Thermal Conversion and Thermoregulated Capability of Coaxial Fibers with a Combined Influence from Comb-like Polymeric Phase Change Material and Carbon Nanotube. ACS Applied Materials & Interfaces, 2019, 11, 14150-14158.	4.0	34
31	Orderâ€“disorder transition in eicosylated polyethyleneimine comblike polymers. Polymer, 2007, 48, 2762-2767.	1.8	32
32	High performance acid-base composite membranes from sulfonated polysulfone containing graphitic carbon nitride nanosheets for vanadium redox flow battery. Journal of Membrane Science, 2019, 591, 117332.	4.1	31
33	An enhanced stability and efficiency of SPEEK-based composite membrane influenced by amphoteric side-chain polymer for vanadium redox flow battery. Journal of Membrane Science, 2022, 643, 120011.	4.1	29
34	Fabrication, characterization, and supercooling suppression of nanoencapsulated n-octadecane with methyl methacrylateâ€“octadecyl methacrylate copolymer shell. Colloid and Polymer Science, 2013, 291, 1705-1712.	1.0	28
35	High-performance composite membrane based on synergistic main-chain/side-chain proton conduction channels for the vanadium redox flow battery. Journal of Materials Chemistry A, 2021, 9, 4240-4252.	5.2	28
36	Structure and Properties of Sulfonated Poly(ether ether ketone) Hybrid Membrane with Polyanilineâ€Chainsâ€Modified Graphene Oxide and Its Application for Vanadium Redox Flow Battery. ChemistrySelect, 2018, 3, 9249-9258.	0.7	27

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37	Fabrication and properties of poly(polyethylene glycol octadecyl ether methacrylate). Thermochimica Acta, 2013, 574, 116-120.	1.2	26
38	Effect of N-isopropylacrylamide on the preparation and properties of microencapsulated phase change materials. Energy, 2016, 106, 221-230.	4.5	24
39	Form-stable and light-to-thermal conversion properties of comb-like polymer composite phase change materials for thermal management application. Solar Energy Materials and Solar Cells, 2020, 217, 110704.	3.0	23
40	Ultrahigh proton conductive nanofibrous composite membrane with an interpenetrating framework and enhanced acid-base interfacial layers for vanadium redox flow battery. Journal of Membrane Science, 2022, 647, 120327.	4.1	23
41	Nanoconfinement crystallization of frustrated alkyl groups: crossover of mesophase to crystalline structure. Chemical Communications, 2011, 47, 3825.	2.2	22
42	Phase Transition and Side-Chain Crystallization of Poly(methyl vinyl ether-alt-maleic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td	2.2	21
43	Crystalline structure and phase behavior of N-alkylated polypyrrole comb-like polymers. CrystEngComm, 2014, 16, 7090.	1.3	20
44	Thermal properties and shape stabilization of epoxidized methoxy polyethylene glycol composite PCMs tailored by polydopamine-functionalized graphene oxide. Solar Energy Materials and Solar Cells, 2020, 208, 110388.	3.0	19
45	Mesogen-Free Supramolecular Liquid Crystalline State Formed by a Polyelectrolyte/Amphiphile Complex. Macromolecular Rapid Communications, 2005, 26, 226-231.	2.0	17
46	Crystal structure and thermal property of polyethylene glycol octadecyl ether. Thermochimica Acta, 2013, 558, 83-86.	1.2	17
47	Fabrication and Performances of Microencapsulated n-Alkanes with Copolymers Having n-Octadecyl Side Chains As Shells. Industrial & Engineering Chemistry Research, 2014, 53, 1678-1687.	1.8	17
48	Thermo-regulated sheath/core submicron fiber with poly(diethylene glycol hexadecyl ether acrylate) as a core. Textile Reseach Journal, 2016, 86, 493-501.	1.1	17
49	Thermal performance and phase transformation of S-alkylated poly(vinyl chloride) comb-like polymers. Polymer, 2018, 153, 362-368.	1.8	17
50	Enhanced thermal management performance of comb-like polymer/boron nitride composite phase change materials for the thermoregulated fabric application. Journal of Energy Storage, 2021, 40, 102826.	3.9	16
51	Chain packing and phase transition of N-hexacosylated polyethyleneimine comb-like polymer: A combined investigation by synchrotron X-ray scattering and FTIR spectroscopy. Polymer, 2013, 54, 6261-6266.	1.8	15
52	Thermal performance and crystallization behavior of poly(ethylene glycol) hexadecyl ether in confined environment. Polymer International, 2014, 63, 982-988.	1.6	14
53	Side-chain crystallization and segment packing of poly(isobutylene-alt-maleic anhydride)-g-alkyl alcohol comb-like polymers. Polymer, 2020, 202, 122721.	1.8	14
54	Sulfonated poly (ether ketone)/sulfonated titanium dioxide hybrid membrane with high selectivity and good stability for vanadium redox flow battery. Journal of Energy Storage, 2022, 45, 103705.	3.9	14

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55	Fabrication and properties of poly(polyethylene glycol n-alkyl ether vinyl ether)s as polymeric phase change materials. Thermochimica Acta, 2016, 633, 161-169.	1.2	12
56	On the crystallization behavior of a poly(stearyl methacrylate) comb-like polymer inside a nanoscale environment. CrystEngComm, 2018, 20, 7348-7356.	1.3	12
57	Nucleation and mechanical enhancements in poly(butylene terephthalate) nanocomposites influenced by functionalized graphene oxide. SN Applied Sciences, 2019, 1, 1.	1.5	12
58	Transcrystalline morphology of nylon 6 on the surface of aramid fibers. Polymer International, 2004, 53, 1672-1676.	1.6	11
59	Structure and properties of mixtures based on long chain polyacrylate and 1-alcohol composites. Materials Chemistry and Physics, 2014, 143, 1069-1074.	2.0	10
60	Preparation and Characterization of Octadecylated Poly(vinyl Alcohol) Polymers. Advanced Materials Research, 0, 482-484, 1921-1924.	0.3	9
61	Improved proton conductivity and structure stability of an SPEEK/SPPS blend membrane for vanadium redox flow batteries. Materials Chemistry Frontiers, 2021, 5, 8171-8182.	3.2	9
62	Phase Transition and Crystallization of Bio-based Comb-like Polymers Based on Renewable Castor Oil-Derived Epoxides and CO₂. Macromolecules, 2021, 54, 8503-8511.	2.2	7
63	Fabrication, Characterization and Suppression of Supercooling in Microencapsulated n-Octadecane with Methyl Methacrylate-Octadecyl Methacrylate Copolymer as Shell. Science of Advanced Materials, 2014, 6, 120-127.	0.1	7
64	Conformational variation and crystalline phase transformation of low syndiotactic polypropylene films in stretched and stress-relaxed states. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 2924-2936.	2.4	6
65	Microencapsulation of vitamin C by interfacial/emulsion reaction: Characterization of release properties of microcapsules. Journal of Controlled Release, 2011, 152, e78-e79.	4.8	6
66	Crystallization and thermal performance of poly(acrylonitrile-co-alkyl acrylate) comb-like polymeric phase change materials with various side-chain lengths. CrystEngComm, 2020, 22, 5799-5808.	1.3	5
67	Thermal Behaviors of N-Octadecylated Poly(<i>Ethyleneimine</i>) with Different Grafting Ratios. Advanced Materials Research, 0, 332-334, 2085-2088.	0.3	4
68	Effect of manufacturing parameters on the release profiles of casein-loaded alginate microspheres prepared by emulsification/internal gelation. Journal of Controlled Release, 2011, 152, e154-e155.	4.8	4
69	Sideâ€chain crystallization and phase transition of poly[styreneâ€•co â€(maleic anhydride)]â€•g â€alkylamine combâ€like polymers. Polymer International, 0, , .	1.6	3
70	Facile Synthesis of Highly Photoactive ATO-Based Microcapsule for Solar Energy Harvesting. Science of Advanced Materials, 2013, 5, 1498-1503.	0.1	3
71	Coaxial Electrospun Thermo-Regulated Sheath/Core Nanofibers with a Comb-Like Polymer Core. Science of Advanced Materials, 2014, 6, 2640-2645.	0.1	2
72	EFFECT OF ALKYLATION DEGREE ON THE STRUCTURE OF <I>N</I>-OCTADECYLATED POLYETHYLENEIMINE COMB-LIKE POLYMERS. Acta Polymerica Sinica, 2013, 013, 56-62.	0.0	1

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73	Preparation and crystalline transformation of functionalized poly(1-butene) containing PFPU and mPEG side chain. RSC Advances, 2021, 11, 37317-37324.	1.7	1
74	Fabrication of Thermochromatic Microencapsulated Phase Change Materials. Advanced Materials Research, 2011, 332-334, 1856-1859.	0.3	0
75	Graphene/polymer composite membranes for vanadium redox flow battery applications. , 2022, , 487-520.		0