Wei Li

List of Publications by Year
in descending order

54 papers	2,330 citations	186265 28 h-index	206112 48 g-index
54 all docs	54 docs citations	54 times ranked	1720 citing authors

#	Article	IF	Citations
1	Reversible thermochromic microencapsulated phase change materials for thermal energy storage application in thermal protective clothing. Applied Energy, 2018, 217, 281-294.	10.1	192
2	Preparation and characterization of microencapsulated phase change material with low remnant formaldehyde content. Materials Chemistry and Physics, 2007, 106, 437-442.	4.0	148
3	Fabrication and characterization of microencapsulated n-octadecane with different crosslinked methylmethacrylate-based polymer shells. Solar Energy Materials and Solar Cells, 2012, 98, 283-293.	6.2	136
4	Microencapsulated n-octadecane with different methylmethacrylate-based copolymer shells as phase change materials for thermal energy storage. Energy, 2012, 46, 188-199.	8.8	127
5	Morphology, structure and thermal stability of microencapsulated phase change material with copolymer shell. Energy, 2011, 36, 785-791.	8.8	123
6	Fabrication and morphological characterization of microencapsulated phase change materials (MicroPCMs) and macrocapsules containing MicroPCMs for thermal energy storage. Energy, 2012, 38, 249-254.	8.8	95
7	Facile flexible reversible thermochromic membranes based on micro/nanoencapsulated phase change materials for wearable temperature sensor. Applied Energy, 2019, 247, 615-629.	10.1	95
8	UV irradiation-initiated MMA polymerization to prepare microcapsules containing phase change paraffin. Solar Energy Materials and Solar Cells, 2010, 94, 1643-1647.	6.2	88
9	Enhanced Thermal-to-Flexible Phase Change Materials Based on Cellulose/Modified Graphene Composites for Thermal Management of Solar Energy. ACS Applied Materials & Interfaces, 2019, 11, 45832-45843.	8.0	83
10	Fabrication and characterization of microencapsulated phase change material with low supercooling for thermal energy storage. Energy, 2014, 68, 160-166.	8.8	78
11	Preparation and characterization of poly(methyl methacrylate-co-divinylbenzene) microcapsules containing phase change temperature adjustable binary core materials. Solar Energy, 2012, 86, 2056-2066.	6.1	73
12	Design and fabrication of reversible thermochromic microencapsulated phase change materials for thermal energy storage and its antibacterial activity. Energy, 2018, 159, 857-869.	8.8	68
13	Chitosan composite microencapsulated comb-like polymeric phase change material via coacervation microencapsulation. Carbohydrate Polymers, 2018, 200, 602-610.	10.2	64
14	Composite macrocapsule of phase change materials/expanded graphite for thermal energy storage. Energy, 2013, 57, 607-614.	8.8	61
15	Mussel-Inspired Polydopamine-Functionalized Graphene as a Conductive Adhesion Promoter and Protective Layer for Silver Nanowire Transparent Electrodes. Langmuir, 2016, 32, 5365-5372.	3.5	56
16	Effects of ammonium chloride and heat treatment on residual formaldehyde contents of melamine-formaldehyde microcapsules. Colloid and Polymer Science, 2007, 285, 1691-1697.	2.1	53
17	Synthesis and characterization of thermal energy storage microencapsulated n-dodecanol with acrylic polymer shell. Energy, 2015, 87, 86-94.	8.8	48
18	Intelligent adjustment of light-to-thermal energy conversion efficiency of thermo-regulated fabric containing reversible thermochromic MicroPCMs. Chemical Engineering Journal, 2021, 408, 127276.	12.7	46

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19	Composition and Characterization of Thermoregulated Fiber Containing Acrylic-Based Copolymer Microencapsulated Phase-Change Materials (MicroPCMs). Industrial & Engineering Chemistry Research, 2014, 53, 5413-5420.	3.7	39
20	A novel PVDF/graphene composite membrane based on electrospun nanofibrous film for oil/water emulsion separation. Composites Communications, 2016, 2, 5-8.	6.3	39
21	Thermo-responsive PVDF/PSMA composite membranes with micro/nanoscale hierarchical structures for oil/water emulsion separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 516, 305-316.	4.7	39
22	Novel Dual-Component Microencapsulated Hydrophobic Amine and Microencapsulated Isocyanate Used for Self-Healing Anti-Corrosion Coating. Polymers, 2018, 10, 319.	4.5	38
23	Preparation and Properties of Microencapsulated Phase Change Materials Containing Two-Phase Core Materials. Industrial & Engineering Chemistry Research, 2013, 52, 14706-14712.	3.7	37
24	Experimental observation of the self-healing microcapsules containing rejuvenator states in asphalt binder. Construction and Building Materials, 2017, 147, 533-542.	7.2	37
25	Preparation of polyaniline-coated polyacrylonitrile fiber mats and their application to Cr(VI) removal. Synthetic Metals, 2016, 222, 255-266.	3.9	36
26	Fabrication and characterization of self-healing microcapsules containing bituminous rejuvenator by a nano-inorganic/organic hybrid method. Construction and Building Materials, 2016, 121, 471-482.	7.2	35
27	Effects of oil-soluble etherified melamine-formaldehyde prepolymers on in situ microencapsulation and macroencapsulation of n-dodecanol. New Journal of Chemistry, 2017, 41, 9424-9437.	2.8	32
28	Investigation of the Self-Healing Behaviors of Microcapsules/Bitumen Composites by a Repetitive Direct Tension Test. Materials, 2016, 9, 600.	2.9	30
29	Fabrication, characterization, and supercooling suppression of nanoencapsulated n-octadecane with methyl methacrylateâ€“octadecyl methacrylate copolymer shell. Colloid and Polymer Science, 2013, 291, 1705-1712.	2.1	28
30	Microstructure regulation of microencapsulated bio-based n-dodecanol as phase change materials via in situ polymerization. New Journal of Chemistry, 2017, 41, 14696-14707.	2.8	27
31	Evaluating and Modeling the Internal Diffusion Behaviors of Microencapsulated Rejuvenator in Aged Bitumen by FTIR-ATR Tests. Materials, 2016, 9, 932.	2.9	25
32	Effect of N-isopropylacrylamide on the preparation and properties of microencapsulated phase change materials. Energy, 2016, 106, 221-230.	8.8	24
33	A Novel Method for the Preparation of Narrow-Disperse Nanoencapsulated Phase Change Materials by Phase Inversion Emulsification and Suspension Polymerization. Industrial & Engineering Chemistry Research, 2015, 54, 9307-9313.	3.7	23
34	Design, controlled fabrication and characterization of narrow-disperse macrocapsules containing Micro/NanoPCMs. Materials and Design, 2016, 99, 225-234.	7.0	22
35	Crystal structure and thermal property of polyethylene glycol octadecyl ether. Thermochimica Acta, 2013, 558, 83-86.	2.7	17
36	Fabrication and Performances of Microencapsulated n-Alkanes with Copolymers Having n-Octadecyl Side Chains As Shells. Industrial & Engineering Chemistry Research, 2014, 53, 1678-1687.	3.7	17

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37	Thermo-regulated sheath/core submicron fiber with poly(diethylene glycol hexadecyl ether acrylate) as a core. Textile Reseach Journal, 2016, 86, 493-501.	2.2	17
38	Microencapsulation of oil soluble polyaspartic acid ester and isophorone diisocyanate and their application in selfâ€healing anticorrosive epoxy resin. Journal of Applied Polymer Science, 2020, 137, 48478.	2.6	14
39	Fabrication and properties of poly(polyethylene glycol n-alkyl ether vinyl ether)s as polymeric phase change materials. Thermochimica Acta, 2016, 633, 161-169.	2.7	12
40	Design and synthesis of microcapsules with cross-linking network supporting core for supercooling degree regulation. Energy and Buildings, 2021, 253, 111437.	6.7	12
41	Microencapsulated Comb-Like Polymeric Solid-Solid Phase Change Materials via In-Situ Polymerization. Polymers, 2018, 10, 172.	4.5	11
42	Synthesis and characterization of hydrophobic reversible thermochromic MicroPCMs with amino resins shell for thermal energy storage. Energy and Buildings, 2021, 230, 110528.	6.7	11
43	Thermal energy regulated and thermochromic composite film with temperature-sensitive â€œbreathableâ€• stomata. Journal of Materials Science, 2020, 55, 12921-12939.	3.7	10
44	Facile microencapsulation of phase change material with organic silicon shell used for energy storage. Solar Energy Materials and Solar Cells, 2022, 240, 111718.	6.2	10
45	Fabrication and Characterization of Microencapsulated Phase Change Material with Large Diameter Range. Polymer-Plastics Technology and Engineering, 2009, 49, 90-94.	1.9	9
46	Reversible Photochromic Nanofiber Membrane Containing Combâ€Like Poly(octadecyl acrylate) Nanoparticles Used for Ultraviolet Intensity Indicator. Macromolecular Materials and Engineering, 2019, 304, 1900299.	3.6	9
47	Influences of PVA modification on performance of microencapsulated reversible thermochromic phase change materials for energy storage application. Solar Energy Materials and Solar Cells, 2021, 222, 110938.	6.2	9
48	Research on long-chain alkanol etherified melamine-formaldehyde resin MicroPCMs for energy storage. Energy, 2021, 214, 119029.	8.8	8
49	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.	0.7	7
50	Microencapsulation and characterization of polyamic acid microcapsules containing <I>n</I>-octadecane via electrospraying method. Materials Express, 2015, 5, 480-488.	0.5	6
51	Microencapsulated Phase Change Materials and its Application in Thermal-Regulated Fibers. Key Engineering Materials, 0, 519, 6-9.	0.4	2
52	Coaxial Electrospun Thermo-Regulated Sheath/Core Nanofibers with a Comb-Like Polymer Core. Science of Advanced Materials, 2014, 6, 2640-2645.	0.7	2
53	New Approach to Fabricate Microcapsules with Comb-Like Copolymer Shell by Phase Separation Method. Advanced Materials Research, 0, 860-863, 577-581.	0.3	1
54	Microencapsulation of energy conversion photochromic materials with epoxy resin shell by interfacial polymerization. IOP Conference Series: Materials Science and Engineering, 0, 394, 022009.	0.6	1