

Phase change materials for smart textiles “ An overview

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Citation Report

#	ARTICLE	IF	CITATIONS
1	A Review on Applications of Liposomes in Textile Processing. Journal of Liposome Research, 2008, 18, 249-262.	1.5	81
2	Influence of garment design on elite athlete cooling. Sports Technology, 2008, 1, 117-124.	0.4	6
3	Preparation and characterization of a novel polymeric based solidâ€“solid phase change heat storage material. Energy Conversion and Management, 2009, 50, 1522-1528.	4.4	62
4	Preparation, characterization, and thermal properties of microPCMs containing n-dodecanol by using different types of styrene-maleic anhydride as emulsifier. Colloid and Polymer Science, 2009, 287, 549-560.	1.0	79
5	Preparation of PCM microcapsules by complex coacervation of silk fibroin and chitosan. Colloid and Polymer Science, 2009, 287, 1455-1467.	1.0	100
6	The behavior of self-compacting concrete containing micro-encapsulated Phase Change Materials. Cement and Concrete Composites, 2009, 31, 731-743.	4.6	397
7	Microencapsulated n-octacosane as phase change material for thermal energy storage. Solar Energy, 2009, 83, 1757-1763.	2.9	317
8	Variable solar control using thermotropic core/shell particles. Solar Energy Materials and Solar Cells, 2009, 93, 1510-1517.	3.0	41
9	ScentfashionÂ®: Microencapsulated perfumes for textile application. Chemical Engineering Journal, 2009, 149, 463-472.	6.6	189
10	An overview of phase change materials and their implication on power demand. , 2009, , .		8
12	Multifunctional structure solutions for Ultra High Precision (UHP) machine tools. International Journal of Machine Tools and Manufacture, 2010, 50, 366-373.	6.2	29
13	Preparation, characterization and thermal properties of PMMA/n-heptadecane microcapsules as novel solidâ€“liquid microPCM for thermal energy storage. Applied Energy, 2010, 87, 1529-1534.	5.1	285
14	Preparation and characterization of poly(methylmethacrylate-coglycidyl methacrylate)/n-hexadecane nanocapsules as a fiber additive for thermal energy storage. Fibers and Polymers, 2010, 11, 1089-1093.	1.1	74
15	Investigation of a hyperbranched polyurethane as a solid-state phase change material. Journal of Materials Science, 2010, 45, 2436-2441.	1.7	37
16	Preparation and performance of porous phase change polyethylene glycol/polyurethane membrane. Energy Conversion and Management, 2010, 51, 2294-2298.	4.4	32
17	Multifunctional Shapeâ€“Memory Polymers. Advanced Materials, 2010, 22, 3388-3410.	11.1	835
18	Thermoregulated natural leather using phase change materials: An example of bioinspiration. Applied Thermal Engineering, 2010, 30, 1369-1376.	3.0	33
19	Study of ZrO2 nanopowders based stearic acid phase change materials. Particuology, 2010, 8, 394-397.	2.0	27

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20	Development of thermo-regulating textiles using paraffin wax microcapsules. <i>Thermochimica Acta</i> , 2010, 498, 16-21.	1.2	218
21	Thermoregulating response of cotton fabric containing microencapsulated phase change materials. <i>Thermochimica Acta</i> , 2010, 506, 82-93.	1.2	118
22	Influence of the solvent on the microencapsulation of an hydrated salt. <i>Carbohydrate Polymers</i> , 2010, 79, 964-974.	5.1	49
23	Microgel-based surface modifying system for stimuli-responsive functional finishing of cotton. <i>Carbohydrate Polymers</i> , 2010, 82, 1306-1314.	5.1	52
24	A Review of Technology of Personal Heating Garments. <i>International Journal of Occupational Safety and Ergonomics</i> , 2010, 16, 387-404.	1.1	101
25	Heat Transfer to Suspensions of Microencapsulated Phase Change Material (MEPCM) Flowing Through Minichannels. , 2010, , .		0
26	Interfacial Processes in Textile Materials: Relevance to Adhesion. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 7-33.	1.4	14
27	Preparation and Melting/Freezing Characteristics of Cu/Paraffin Nanofluid as Phase-Change Material (PCM). <i>Energy & Fuels</i> , 2010, 24, 1894-1898.	2.5	261
28	Electrospinning and its applications. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2010, 1, 043002.	0.7	75
29	Surface-controlled shape design of discotic micro-particles. <i>Soft Matter</i> , 2010, 6, 4885.	1.2	6
30	Cooling vests with phase change material packs: the effects of temperature gradient, mass and covering area. <i>Ergonomics</i> , 2010, 53, 716-723.	1.1	118
31	Thermo-regulating textiles with phase-change materials. , 2011, , 163-183.		9
32	Evaluation on Thermal Adjusting Effect of PCM Cooling Vest by Thermal Manikin. <i>Advanced Materials Research</i> , 0, 332-334, 1860-1863.	0.3	0
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34	Comparison of compounded fragrance and chitosan nanoparticles loaded with fragrance applied in cotton fabrics. <i>Textile Reseach Journal</i> , 2011, 81, 2056-2064.	1.1	61
35	Nanotechnology â€“ a new route to high-performance functional textiles. <i>Textile Progress</i> , 2011, 43, 155-233.	1.3	146
36	Adaptive Polymeric Particles and Applications. , 2011, , 107-141.		0
37	Adaptive Textiles Using Adaptive Polymers. , 2011, , 142-179.		0

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39	The shape-stabilized phase change materials composed of polyethylene glycol and various mesoporous matrices (AC, SBA-15 and MCM-41). Solar Energy Materials and Solar Cells, 2011, 95, 3550-3556.	3.0	193
40	Preparation of phase change materialâ€montmorillonite composites suitable for thermal energy storage. Thermochimica Acta, 2011, 524, 39-46.	1.2	69
41	Fabrication of microencapsulated phase change materials based on n-octadecane core and silica shell through interfacial polycondensation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 389, 104-117.	2.3	163
42	Influence of different suspension stabilizers on the preparation of Rubitherm RT31 microcapsules. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 390, 62-66.	2.3	34
43	Preparation of coated thermoâ€regulating textiles using Rubithermâ€RT31 microcapsules. Journal of Applied Polymer Science, 2012, 124, 4809-4818.	1.3	15
44	A Novel Technique for Experimental Thermophysical Characterization of Phase-Change Materials. International Journal of Thermophysics, 2011, 32, 674-692.	1.0	28
45	Effect of different amounts of surfactant on characteristics of nanoencapsulated phase-change materials. Polymer Bulletin, 2011, 67, 541-552.	1.7	51
46	Optimization of size and shape of composite heat sinks with phase change materials. Heat and Mass Transfer, 2011, 47, 597-608.	1.2	13
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49	Thermo-regulating nanofibers based on nylon 6,6/polyethylene glycol blend. Fibers and Polymers, 2011, 12, 706-714.	1.1	26
50	Fabrication and characterization of coaxial electrospun polyethylene glycol/polyvinylidene fluoride (Core/Sheath) composite non-woven mats. Macromolecular Research, 2011, 19, 370-378.	1.0	42
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53	Ovonic Memory Switching in Multimaterial Fibers. Advanced Functional Materials, 2011, 21, 1095-1101.	7.8	26
54	Microencapsulation of disperse dye particles with nano film coating through layer by layer technique. Journal of Applied Polymer Science, 2011, 119, 586-594.	1.3	15
55	Thermal and morphological stability of polystyrene microcapsules containing phaseâ€change materials. Journal of Applied Polymer Science, 2011, 120, 291-297.	1.3	53

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57	Properties of <i>n</i> -eicosane-loaded silk fibroin-chitosan microcapsules. Journal of Applied Polymer Science, 2011, 121, 1885-1889.	1.3	49
58	Physical and mechanical properties of thermostatic fabrics treated with nanoencapsulated phase change materials. Journal of Applied Polymer Science, 2011, 121, 3238-3245.	1.3	14
59	Fabrication of electrospun nonwoven mats of polyvinylidene fluoride/polyethylene glycol/fumed silica for use as energy storage materials. Journal of Applied Polymer Science, 2011, 121, 3596-3603.	1.3	37
60	Preparation, thermal properties and thermal reliability of microencapsulated <i>n</i> -eicosane as novel phase change material for thermal energy storage. Energy Conversion and Management, 2011, 52, 687-692.	4.4	278
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62	Galactitol hexa stearate and galactitol hexa palmitate as novel solid-liquid phase change materials for thermal energy storage. Solar Energy, 2011, 85, 2061-2071.	2.9	50
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65	Temperature-Regulating Properties of Phase Change Fiber Blended Knitted Fabrics after Laundering. Advanced Materials Research, 2011, 393-395, 397-400.	0.3	0
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67	Balancing comfort and function in textiles worn by medical personnel. , 2011, , 370-384.		4
68	Medical textiles and thermal comfort. , 2011, , 198-218.		8
69	Microencapsulation of butyl stearate with melamine-formaldehyde resin: Effect of decreasing the pH value on the composition and thermal stability of microcapsules. EXPRESS Polymer Letters, 2012, 6, 826-836.	1.1	40
70	1-Octadecanol/SiO ₂ ; Hybrid Form-Stable Phase Change Materials for Thermal Energy Storage. Applied Mechanics and Materials, 0, 260-261, 22-27.	0.2	2
71	Examination of Thermal Properties of Paraffin/Water Emulsion with Implications for Heat Transfer. Journal of Thermophysics and Heat Transfer, 2012, 26, 535-539.	0.9	5
72	Phase change materials and the perception of wetness. Ergonomics, 2012, 55, 508-512.	1.1	34
73	Electrospun capric acid/polyethylene terephthalate composite nanofibres for storage and retrieval of thermal energy. Materials Research Innovations, 2012, 16, 429-437.	1.0	5

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74	Heat Transfer to Suspensions of Microencapsulated Phase Change Material Flowing Through Minichannels. <i>Journal of Heat Transfer</i> , 2012, 134, .	1.2	45
75	Capsules Made of Cross-Linked Polymers and Liquid Core: Possible Morphologies and Their Estimation on the Basis of Hansen Solubility Parameters. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8181-8187.	1.5	23
76	Smart textiles: Challenges and opportunities. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	446
77	A novel approach to synthesize and to fix microparticles on cotton fabric. <i>Chemical Engineering Journal</i> , 2012, 213, 78-87.	6.6	14
78	Fabrication of polyethylene glycol/polyvinylidene fluoride core/shell nanofibers via melt electrospinning and their characteristics. <i>Solar Energy Materials and Solar Cells</i> , 2012, 104, 131-139.	3.0	65
79	Preparation and properties of polystyrene encapsulated paraffin wax as possible phase change material in a polypropylene matrix. <i>Thermochimica Acta</i> , 2012, 544, 63-70.	1.2	58
80	Synthesis and thermal energy storage properties of the polyurethane solidâ€“solid phase change materials with a novel tetrahydroxy compound. <i>European Polymer Journal</i> , 2012, 48, 1295-1303.	2.6	51
81	Preparation of microcapsules with multi-layers structure stabilized by chitosan and sodium dodecyl sulfate. <i>Carbohydrate Polymers</i> , 2012, 90, 967-975.	5.1	26
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83	Characterisation and applications of microcapsules obtained by interfacial polycondensation. <i>Journal of Microencapsulation</i> , 2012, 29, 636-649.	1.2	53
84	Personal cooling with phase change materials to improve thermal comfort from a heat wave perspective. <i>Indoor Air</i> , 2012, 22, 523-530.	2.0	144
85	A review of stimuli-responsive polymers for smart textile applications. <i>Smart Materials and Structures</i> , 2012, 21, 053001.	1.8	467
86	Thermal conductivity enhancement of PEG/SiO ₂ composite PCM by in situ Cu doping. <i>Solar Energy Materials and Solar Cells</i> , 2012, 105, 242-248.	3.0	175
87	A review on effect of phase change material encapsulation on the thermal performance of a system. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 5603-5616.	8.2	473
88	Preparation and thermal properties of form-stable palmitic acid/active aluminum oxide composites as phase change materials for latent heat storage. <i>Materials Chemistry and Physics</i> , 2012, 137, 558-564.	2.0	33
89	Phase Change Materialsâ€™ Application in Clothing Design. <i>Transactions of the Materials Research Society of Japan</i> , 2012, 37, 103-106.	0.2	7
90	Synthesis and characterization of a microsphereâ€“based coating for textiles with potential as an <i>in situ</i> bioactive delivery system. <i>Polymers for Advanced Technologies</i> , 2012, 23, 350-356.	1.6	9
91	Fabrication and characterization of nanocapsules containing n-dodecanol by miniemulsion polymerization using interfacial redox initiation. <i>Colloid and Polymer Science</i> , 2012, 290, 307-314.	1.0	41

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92	Poly(polyethylene glycol methyl ether methacrylate) as novel solid-solid phase change material for thermal energy storage. <i>Journal of Applied Polymer Science</i> , 2012, 125, 1377-1381.	1.3	28
93	Impregnation of ethylcellulose microcapsules containing jojoba oil onto compressive knits developed for high burns. <i>Fibers and Polymers</i> , 2012, 13, 346-351.	1.1	23
94	Experimental investigations on phase change material based finned heat sinks for electronic equipment cooling. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 1642-1649.	2.5	237
95	Preparation, characterization and thermal properties of nanocapsules containing phase change material n-dodecanol by miniemulsion polymerization with polymerizable emulsifier. <i>Applied Energy</i> , 2012, 91, 7-12.	5.1	202
96	Feasibility of perspiration based infrared Camouflage. <i>Applied Thermal Engineering</i> , 2012, 36, 32-38.	3.0	18
97	Thermal characterization of gypsum boards with PCM included: Thermal energy storage in buildings through latent heat. <i>Energy and Buildings</i> , 2012, 48, 1-7.	3.1	133
98	Fabrication and properties of microencapsulated-paraffin/gypsum-matrix building materials for thermal energy storage. <i>Energy Conversion and Management</i> , 2012, 55, 101-107.	4.4	87
99	Preparation and characterization of poly(methyl methacrylate-co-divinylbenzene) microcapsules containing phase change temperature adjustable binary core materials. <i>Solar Energy</i> , 2012, 86, 2056-2066.	2.9	73
100	Synthesis and thermal properties of shape-stabilized lauric acid/activated carbon composites as phase change materials for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2012, 102, 131-136.	3.0	143
101	Organic phase change materials and their textile applications: An overview. <i>Thermochimica Acta</i> , 2012, 540, 7-60.	1.2	543
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103	Electrospun ultrafine composite fibers of binary fatty acid eutectics and polyethylene terephthalate as innovative form-stable phase change materials for storage and retrieval of thermal energy. <i>International Journal of Energy Research</i> , 2013, 37, 657-664.	2.2	19
104	Preparation and characterization of novel polyamide paraffin MEPCM by interfacial polymerization technique. <i>Journal of Applied Polymer Science</i> , 2013, 127, 4588-4593.	1.3	30
105	Preparation and Thermal Energy Storage of Carboxymethyl Cellulose-Modified Nanocapsules. <i>Bioenergy Research</i> , 2013, 6, 1135-1141.	2.2	20
106	Synthesis of a paraffin phase change material microencapsulated in a siloxane polymer. <i>Colloid and Polymer Science</i> , 2013, 291, 725-733.	1.0	44
107	Phase-change core/shell structured nanofibers based on eicosane/poly(vinylidene fluoride) for thermal storage applications. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1403-1409.	1.2	32
108	Facile synthesis and performances of PEG/SiO ₂ composite form-stable phase change materials. <i>Solar Energy</i> , 2013, 97, 484-492.	2.9	76
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110	25th Anniversary Article: Galvanic Replacement: A Simple and Versatile Route to Hollow Nanostructures with Tunable and Well-Controlled Properties. <i>Advanced Materials</i> , 2013, 25, 6313-6333.	11.1	856
111	Smart surface treatments for textiles for protection. , 2013, , 87-126.		3
112	Solid-liquid phase equilibrium study of n-octadecane+lauryl alcohol binary mixtures. <i>Journal of Chemical Thermodynamics</i> , 2013, 60, 94-97.	1.0	19
113	Heat balance of textile materials modified with the mixtures of PCM microcapsules. <i>Thermochimica Acta</i> , 2013, 569, 144-150.	1.2	26
114	Electrospun form-stable phase change composite nanofibers consisting of capric acid-based binary fatty acid eutectics and polyethylene terephthalate. <i>Fibers and Polymers</i> , 2013, 14, 89-99.	1.1	41
115	Thermal stability of phase change materials used in latent heat energy storage systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 18, 246-258.	8.2	548
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118	Review of passive PCM latent heat thermal energy storage systems towards buildings' energy efficiency. <i>Energy and Buildings</i> , 2013, 59, 82-103.	3.1	785
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120	Preparation, characterization, and thermal properties of the microencapsulation of a hydrated salt as phase change energy storage materials. <i>Thermochimica Acta</i> , 2013, 557, 1-6.	1.2	119
121	Low melting point liquid metal as a new class of phase change material: An emerging frontier in energy area. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 21, 331-346.	8.2	245
122	Study on the heat conduction of phase-change material microcapsules. <i>Journal of Thermal Science</i> , 2013, 22, 257-260.	0.9	8
123	Heat protection by different phase change materials. <i>Applied Thermal Engineering</i> , 2013, 54, 359-364.	3.0	37
124	Thermal properties of a novel nanoencapsulated phase change material for thermal energy storage. <i>Thermochimica Acta</i> , 2013, 565, 95-101.	1.2	64
125	Fabrication and Properties of Microencapsulated Paraffin@SiO ₂ Phase Change Composite for Thermal Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 374-380.	3.2	249
126	Study on Manufacturing Technology of Phase Change Materials and Smart Thermo-Regulated Textiles. <i>Advanced Materials Research</i> , 2013, 821-822, 130-138.	0.3	5
127	Improving thermal conductivity of cotton fabrics using composite coatings containing graphene, multiwall carbon nanotube or boron nitride fine particles. <i>Fibers and Polymers</i> , 2013, 14, 1641-1649.	1.1	62

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128	Effects of the number and position of phase-change material-treated fabrics on the thermo-regulating properties of phase-change material garments. <i>Textile Research Journal</i> , 2013, 83, 671-682.	1.1	39
129	Analysis of thermoregulation properties of PCM garments on the basis of ergonomic tests. <i>Textile Research Journal</i> , 2013, 83, 148-159.	1.1	28
130	Increasing Phase Change Latent Heat of Stearic Acid via Nanocapsule Interface Confinement. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23412-23417.	1.5	56
131	Functionalization of wool fabric with phase-change materials microcapsules after plasma surface modification. <i>Journal of Applied Polymer Science</i> , 2013, 128, 2638-2647.	1.3	53
133	Synthesis and Characterization of Solid-State Phase Change Material Microcapsules for Thermal Management Applications. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2013, 4, .	0.8	14
134	Preparation of Stearic/Montmorillonite Composite as Form-Stable Phase Change Material. <i>Advanced Materials Research</i> , 0, 652-654, 131-134.	0.3	2
135	Shape memory polymers with novel functions: electro-active, magnetically-active, light-adaptive and phase change materials. , 2013, , 231-258.		2
136	Speciality polymers for the finishing of technical textiles. , 2013, , 309-354.		2
137	Diverting phase transition of high-melting-point stearic acid to room temperature by microencapsulation in boehmite. <i>RSC Advances</i> , 2013, 3, 22326.	1.7	34
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139	Ergonomics and Comfort in Protective and Sport Clothing: A Brief Review. <i>Journal of Ergonomics</i> , 2014, S2, .	0.2	10
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141	Numerical and Experimental Analysis on Inorganic Phase Change Material Usage in Construction. <i>Journal of the Institution of Engineers (India): Series A</i> , 2014, 95, 231-238.	0.6	2
142	The Improvement of Thermal Stability and Conductivity via Incorporation of Carbon Nanofibers into Electrospun Ultrafine Composite Fibers of Lauric Acid/Polyamide 6 Phase Change Materials for Thermal Energy Storage. <i>International Journal of Green Energy</i> , 2014, 11, 861-875.	2.1	27
144	Effect of the shell-forming polymer ratio on the encapsulation of tea tree oil by complex coacervation as a natural biocide. <i>Journal of Microencapsulation</i> , 2014, 31, 176-183.	1.2	19
145	Efficacy of a novel phase change material for microclimate body cooling. <i>Thermal Science</i> , 2014, 18, 657-665.	0.5	11
146	Review of thermal energy storage of micro- and nanoencapsulated phase change materials. <i>Materials Research Innovations</i> , 2014, 18, 541-554.	1.0	34
147	The use of phase change material in the design of heat recovery and energy storage system applied to diesel generators. , 2014, , .		1

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148	Hydrophobic and thermal behaviour of nylon 6 nanofibre web deposited on cotton fabric through electrospinning. <i>Micro and Nano Letters</i> , 2014, 9, 519-522.	0.6	3
151	Nanoencapsulated phase change materials based on polyethylene glycol for creating thermoregulating cotton. <i>Journal of Industrial Textiles</i> , 2014, 44, 130-146.	1.1	29
152	Comparative Study between DSC and Two Complementary Performance Evaluation Methods for PCM-Treated Textiles. <i>Advanced Materials Research</i> , 0, 941-944, 1350-1354.	0.3	2
153	Preparation and Characterization of Thermochromic Phase Change Nanofibers/ Woven Composite Material. <i>Advanced Materials Research</i> , 0, 1048, 427-431.	0.3	3
154	Phase Change Material Particles and Their Application in Heat Transfer Fluids. <i>Green Energy and Technology</i> , 2014, , 457-488.	0.4	0
155	Preparation and thermal characterization of capric myristic palmitic acid/expanded graphite composite as phase change material for energy storage. <i>Materials Letters</i> , 2014, 125, 154-157.	1.3	64
156	A novel PCM of lauric myristic stearic acid/expanded graphite composite for thermal energy storage. <i>Materials Letters</i> , 2014, 120, 43-46.	1.3	97
157	Preparation and Characterization of Sodium Sulfate/Silica Composite as a Shape-stabilized Phase Change Material by Sol-gel Method. <i>Chinese Journal of Chemical Engineering</i> , 2014, 22, 360-364.	1.7	43
158	Structure and properties of mixtures based on long chain polyacrylate and 1-alcohol composites. <i>Materials Chemistry and Physics</i> , 2014, 143, 1069-1074.	2.0	10
159	Thermal performance and flammability of phase change material for medium and elevated temperatures for textile application. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 9-17.	2.0	26
160	Emerging Applications of Phase Change Materials (PCMs): Teaching an Old Dog New Tricks. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3780-3795.	7.2	292
161	Experimental investigation of the effect of inclination angle on convection-driven melting of phase change material in a rectangular enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2014, 72, 186-200.	2.5	279
162	Modeling phase change materials behavior in building applications: Comments on material characterization and model validation. <i>Renewable Energy</i> , 2014, 61, 132-135.	4.3	69
163	Phase change materials for thermal energy storage. <i>Progress in Materials Science</i> , 2014, 65, 67-123.	16.0	1,475
165	Nano-encapsulated organic phase change material based on copolymer nanocomposites for thermal energy storage. <i>Energy</i> , 2014, 66, 881-890.	4.5	190
166	Energy storage: Applications and challenges. <i>Solar Energy Materials and Solar Cells</i> , 2014, 120, 59-80.	3.0	729
167	Supercooling suppression of microencapsulated phase change materials by optimizing shell composition and structure. <i>Applied Energy</i> , 2014, 113, 1512-1518.	5.1	142
168	New approaches to improving thermal regulating property of cellulosic fabric. <i>Carbohydrate Polymers</i> , 2014, 101, 912-919.	5.1	37

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