Ahmet SarÄº

List of Publications by Year
in descending order

239 papers	22,646 citations	4641 85 h-index	9553 142 g-index
240 all docs	240 docs citations	240 times ranked	12443 citing authors

#	Article	IF	Citations
1	Thermal conductivity and latent heat thermal energy storage characteristics of paraffin/expanded graphite composite as phase change material. Applied Thermal Engineering, 2007, 27, 1271-1277.	3.0	780
2	Polyethylene glycol (PEG)/diatomite composite as a novel form-stable phase change material for thermal energy storage. Solar Energy Materials and Solar Cells, 2011, 95, 1647-1653.	3.0	590
3	Form-stable paraffin/high density polyethylene composites as solidâ€“liquid phase change material for thermal energy storage: preparation and thermal properties. Energy Conversion and Management, 2004, 45, 2033-2042.	4.4	456
4	Thermal characteristics of expanded perlite/paraffin composite phase change material with enhanced thermal conductivity using carbon nanotubes. Energy Conversion and Management, 2017, 134, 373-381.	4.4	451
5	Preparation, thermal properties and thermal reliability of palmitic acid/expanded graphite composite as form-stable PCM for thermal energy storage. Solar Energy Materials and Solar Cells, 2009, 93, 571-576.	3.0	378
6	Preparation, characterization, and thermal properties of microencapsulated phase change material for thermal energy storage. Solar Energy Materials and Solar Cells, 2009, 93, 143-147.	3.0	372
7	Equilibrium, kinetic and thermodynamic studies of adsorption of Pb(II) from aqueous solution onto Turkish kaolinite clay. Journal of Hazardous Materials, 2007, 149, 283-291.	6.5	367
8	Kinetic and equilibrium studies of biosorption of Pb(II) and Cd(II) from aqueous solution by macrofungus (Amanita rubescens) biomass. Journal of Hazardous Materials, 2009, 164, 1004-1011.	6.5	359
9	Effective adsorption of antimony(III) from aqueous solutions by polyamide-graphene composite as a novel adsorbent. Chemical Engineering Journal, 2017, 307, 230-238.	6.6	332
10	Removal of ammonium ion from aqueous solution by natural Turkish (YÄ±ldÄ±zeli) zeolite for environmental quality. Journal of Hazardous Materials, 2007, 141, 258-263.	6.5	328
11	Novel approaches and recent developments on potential applications of phase change materials in solar energy. Renewable and Sustainable Energy Reviews, 2018, 82, 281-323.	8.2	321
12	Microencapsulated n-octacosane as phase change material for thermal energy storage. Solar Energy, 2009, 83, 1757-1763.	2.9	317
13	Thermal conductivity improvement of stearic acid using expanded graphite and carbon fiber for energy storage applications. Renewable Energy, 2007, 32, 2201-2210.	4.3	309
14	Equilibrium, thermodynamic and kinetic studies on biosorption of Pb(II) and Cd(II) from aqueous solution by macrofungus (Lactarius scrobiculatus) biomass. Chemical Engineering Journal, 2009, 151, 255-261.	6.6	306
15	Capricâ€“myristic acid/vermiculite composite as form-stable phase change material for thermal energy storage. Solar Energy, 2009, 83, 323-332.	2.9	292
16	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
17	Biosorption of cadmium(II) from aqueous solution by red algae (Ceramium virgatum): Equilibrium, kinetic and thermodynamic studies. Journal of Hazardous Materials, 2008, 157, 448-454.	6.5	280
18	Preparation, thermal properties and thermal reliability of microencapsulated n-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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19	Effective removal of methylene blue from aqueous solutions using magnetic loaded activated carbon as novel adsorbent. Chemical Engineering Research and Design, 2017, 122, 151-163.	2.7	275
20	Biosorption of total chromium from aqueous solution by red algae (Ceramium virgatum): Equilibrium, kinetic and thermodynamic studies. Journal of Hazardous Materials, 2008, 160, 349-355.	6.5	266
21	Polyethylenimine modified activated carbon as novel magnetic adsorbent for the removal of uranium from aqueous solution. Chemical Engineering Research and Design, 2017, 117, 218-227.	2.7	262
22	Fatty acid/poly(methyl methacrylate) (PMMA) blends as form-stable phase change materials for latent heat thermal energy storage. Solar Energy, 2008, 82, 118-124.	2.9	261
23	Capricâ€“myristic acid/expanded perlite composite as form-stable phase change material for latent heat thermal energy storage. Renewable Energy, 2008, 33, 2599-2605.	4.3	260
24	Biosorption of Pb(II) and Cd(II) from aqueous solution using green alga (Ulva lactuca) biomass. Journal of Hazardous Materials, 2008, 152, 302-308.	6.5	256
25	Biosorption of Cd(II) and Cr(III) from aqueous solution by moss (Hylocomium splendens) biomass: Equilibrium, kinetic and thermodynamic studies. Chemical Engineering Journal, 2008, 144, 1-9.	6.6	252
26	Biosorption of Pb(II) and Cr(III) from aqueous solution by lichen (Parmelina tiliaceae) biomass. Bioresource Technology, 2008, 99, 2972-2980.	4.8	245
27	Adsorption of Pb(II) and Cr(III) from aqueous solution on Celtek clay. Journal of Hazardous Materials, 2007, 144, 41-46.	6.5	235
28	Adsorption characteristics of Cu(II) and Pb(II) onto expanded perlite from aqueous solution. Journal of Hazardous Materials, 2007, 148, 387-394.	6.5	235
29	Preparation, characterization and thermal properties of lauric acid/expanded perlite as novel form-stable composite phase change material. Chemical Engineering Journal, 2009, 155, 899-904.	6.6	227
30	Thermal reliability test of some fatty acids as PCMs used for solar thermal latent heat storage applications. Energy Conversion and Management, 2003, 44, 2277-2287.	4.4	213
31	Biosorption of Pb(II) and Ni(II) from aqueous solution by lichen (Cladonia furcata) biomass. Biochemical Engineering Journal, 2007, 37, 151-158.	1.8	208
32	Preparation, thermal properties and thermal reliability of capric acid/expanded perlite composite for thermal energy storage. Materials Chemistry and Physics, 2008, 109, 459-464.	2.0	204
33	Biosorption of selenium from aqueous solution by green algae (Cladophora hutchinsiae) biomass: Equilibrium, thermodynamic and kinetic studies. Chemical Engineering Journal, 2010, 158, 200-206.	6.6	199
34	Micro/nano encapsulation of some paraffin eutectic mixtures with poly(methyl methacrylate) shell: Preparation, characterization and latent heat thermal energy storage properties. Applied Energy, 2014, 136, 217-227.	5.1	197
35	Response surface optimization, kinetic and thermodynamic studies for effective removal of rhodamine B by magnetic AC/CeO2 nanocomposite. Journal of Environmental Management, 2018, 206, 170-177.	3.8	195
36	Global warming and renewable energy sources for sustainable development: A case study in Turkey. Renewable and Sustainable Energy Reviews, 2008, 12, 372-396.	8.2	183

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37	Thermal energy storage properties and thermal reliability of some fatty acid esters/building material composites as novel form-stable PCMs. Solar Energy Materials and Solar Cells, 2012, 101, 114-122.	3.0	181
38	Preparation, thermal properties and thermal reliability of eutectic mixtures of fatty acids/expanded vermiculite as novel form-stable composites for energy storage. Journal of Industrial and Engineering Chemistry, 2010, 16, 767-773.	2.9	180
39	Biosorption of palladium(II) from aqueous solution by moss (Racomitrium lanuginosum) biomass: Equilibrium, kinetic and thermodynamic studies. Journal of Hazardous Materials, 2009, 162, 874-879.	6.5	179
40	Polyamide magnetic palygorskite for the simultaneous removal of Hg(II) and methyl mercury; with factorial design analysis. Journal of Environmental Management, 2018, 211, 323-333.	3.8	179
41	Diatomite/CNTs/PEG composite PCMs with shape-stabilized and improved thermal conductivity: Preparation and thermal energy storage properties. Energy and Buildings, 2018, 164, 166-175.	3.1	173
42	Preparation, characterization and evaluation of bio-based magnetic activated carbon for effective adsorption of malachite green from aqueous solution. Materials Chemistry and Physics, 2018, 220, 313-321.	2.0	170
43	Characterization of biosorption process of As(III) on green algae Ulothrix cylindricum. Journal of Hazardous Materials, 2009, 165, 566-572.	6.5	158
44	Thermal performance of palmitic acid as a phase change energy storage material. Energy Conversion and Management, 2002, 43, 863-876.	4.4	157
45	Thermal properties and thermal reliability of eutectic mixtures of some fatty acids as latent heat storage materials. Energy Conversion and Management, 2004, 45, 365-376.	4.4	156
46	Thermal energy storage characteristics of bentonite-based composite PCMs with enhanced thermal conductivity as novel thermal storage building materials. Energy Conversion and Management, 2016, 117, 132-141.	4.4	156
47	Optimization of parameters with experimental design for the adsorption of mercury using polyethylenimine modified-activated carbon. Journal of Environmental Chemical Engineering, 2017, 5, 1079-1088.	3.3	155
48	Development and thermal performance of pumice/organic PCM/gypsum composite plasters for thermal energy storage in buildings. Solar Energy Materials and Solar Cells, 2016, 149, 19-28.	3.0	154
49	Renewable Energy for a Clean and Sustainable Future. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 2004, 26, 1119-1129.	0.5	151
50	Thermal performance of a eutectic mixture of lauric and stearic acids as PCM encapsulated in the annulus of two concentric pipes. Solar Energy, 2002, 72, 493-504.	2.9	146
51	Equilibrium, thermodynamic and kinetic investigations on biosorption of arsenic from aqueous solution by algae (Maugeotia genuflexa) biomass. Chemical Engineering Journal, 2011, 167, 155-161.	6.6	144
52	Chitosan-modified vermiculite for As(III) adsorption from aqueous solution: Equilibrium, thermodynamic and kinetic studies. Journal of Molecular Liquids, 2016, 219, 937-945.	2.3	144
53	Eutectic mixtures of some fatty acids for low temperature solar heating applications: Thermal properties and thermal reliability. Applied Thermal Engineering, 2005, 25, 2100-2107.	3.0	143
54	Thermal energy storage system using stearic acid as a phase change material. Solar Energy, 2001, 71, 365-376.	2.9	140

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55	Micro/nano-encapsulated n-heptadecane with polystyrene shell for latent heat thermal energy storage. Solar Energy Materials and Solar Cells, 2014, 126, 42-50.	3.0	140
56	Biosorptive removal of mercury(II) from aqueous solution using lichen (Xanthoparmelia conspersa) biomass: Kinetic and equilibrium studies. Journal of Hazardous Materials, 2009, 169, 263-270.	6.5	136
57	Magnetic activated carbon loaded with tungsten oxide nanoparticles for aluminum removal from waters. Journal of Environmental Chemical Engineering, 2017, 5, 2853-2860.	3.3	136
58	Equilibrium, thermodynamic and kinetic studies on adsorption of Sb(III) from aqueous solution using low-cost natural diatomite. Chemical Engineering Journal, 2010, 162, 521-527.	6.6	135
59	Synthesis and thermal properties of polystyrene-graft-PEG copolymers as new kinds of solidâ€“solid phase change materials for thermal energy storage. Materials Chemistry and Physics, 2012, 133, 87-94.	2.0	134
60	Thermal performance of myristic acid as a phase change material for energy storage application. Renewable Energy, 2001, 24, 303-317.	4.3	133
61	Biosorption of As(III) and As(V) from aqueous solution by macrofungus (Inonotus hispidus) biomass: Equilibrium and kinetic studies. Journal of Hazardous Materials, 2009, 164, 1372-1378.	6.5	130
62	Renewable energy potential and utilization in Turkey. Energy Conversion and Management, 2003, 44, 459-478.	4.4	125
63	Removal of mercury(II) from aqueous solution using moss (Drepanocladus revolvens) biomass: Equilibrium, thermodynamic and kinetic studies. Journal of Hazardous Materials, 2009, 171, 500-507.	6.5	125
64	Micro/nano encapsulated n-tetracosane and n-octadecane eutectic mixture with polystyrene shell for low-temperature latent heat thermal energy storage applications. Solar Energy, 2015, 115, 195-203.	2.9	122
65	Silica fume/capric acid-palmitic acid composite phase change material doped with CNTs for thermal energy storage. Solar Energy Materials and Solar Cells, 2018, 179, 353-361.	3.0	113
66	Global advancement on experimental and thermal analysis of evacuated tube collector with and without heat pipe systems and possible applications. Applied Energy, 2018, 228, 351-389.	5.1	113
67	Thermal and heat transfer characteristics in a latent heat storage system using lauric acid. Energy Conversion and Management, 2002, 43, 2493-2507.	4.4	111
68	Micro/nanoencapsulated n-nonadecane with poly(methyl methacrylate) shell for thermal energy storage. Energy Conversion and Management, 2014, 86, 614-621.	4.4	111
69	Capric acid and stearic acid mixture impregnated with gypsum wallboard for low-temperature latent heat thermal energy storage. International Journal of Energy Research, 2008, 32, 154-160.	2.2	110
70	Synthesis, characterization, thermal properties of a series of stearic acid esters as novel solidâ€“liquid phase change materials. Materials Letters, 2009, 63, 1213-1216.	1.3	110
71	Poly(ethylene glycol)/acrylic polymer blends for latent heat thermal energy storage. AICHE Journal, 2006, 52, 3310-3314.	1.8	108
72	Synthesis and characterization of micro/nano capsules of PMMA/capricâ€“stearic acid eutectic mixture for low temperature-thermal energy storage in buildings. Energy and Buildings, 2015, 90, 106-113.	3.1	104

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73	Preparation, characterization and latent heat thermal energy storage properties of micro-nanoencapsulated fatty acids by polystyrene shell. Applied Thermal Engineering, 2014, 73, 1160-1168.	3.0	102
74	Fabrication and thermal characterization of kaolin-based composite phase change materials for latent heat storage in buildings. Energy and Buildings, 2015, 96, 193-200.	3.1	102
75	Equilibrium, thermodynamic and kinetic investigations for biosorption of uranium with green algae () Tj ETQq1 1 0.784314 rgBT /Over	0.9	101
76	Phase change and heat transfer characteristics of a eutectic mixture of palmitic and stearic acids as PCM in a latent heat storage system. Energy Conversion and Management, 2003, 44, 3227-3246.	4.4	99
77	Preparation, characterization and thermal properties of styrene maleic anhydride copolymer (SMA)/fatty acid composites as form stable phase change materials. Energy Conversion and Management, 2008, 49, 373-380.	4.4	98
78	A comprehensive review on phase change materials for heat storage applications: Development, characterization, thermal and chemical stability. Solar Energy Materials and Solar Cells, 2022, 234, 111392.	3.0	98
79	Model selection for global and diffuse radiation over the Central Black Sea (CBS) region of Turkey. Energy Conversion and Management, 2005, 46, 605-613.	4.4	97
80	Thermal performance of phase change material integrated heat pipe evacuated tube solar collector system: An experimental assessment. Energy Conversion and Management, 2020, 203, 112205.	4.4	96
81	Synthesis and thermal energy storage characteristics of polystyrene-graft-palmitic acid copolymers as solidâ€“solid phase change materials. Solar Energy Materials and Solar Cells, 2011, 95, 3195-3201.	3.0	94
82	Preparation, characterization and thermal regulation performance of cement based-composite phase change material. Solar Energy Materials and Solar Cells, 2018, 174, 523-529.	3.0	94
83	Facile synthesis of zinc oxide nanoparticles loaded activated carbon as an eco-friendly adsorbent for ultra-removal of malachite green from water. Environmental Technology and Innovation, 2021, 21, 101305.	3.0	94
84	Preparation, Thermal Properties and Thermal Reliability of Form-Stable Paraffin/Polypropylene Composite for Thermal Energy Storage. Journal of Polymers and the Environment, 2009, 17, 254-258.	2.4	93
85	Fatty acid esters-based composite phase change materials for thermal energy storage in buildings. Applied Thermal Engineering, 2012, 37, 208-216.	3.0	92
86	Composites of polyethylene glycol (PEG600) with gypsum and natural clay as new kinds of building PCMs for low temperature-thermal energy storage. Energy and Buildings, 2014, 69, 184-192.	3.1	92
87	Synthesis of silica nanoparticles grafted with copolymer of acrylic acrylamide for ultra-removal of methylene blue from aquatic solutions. European Polymer Journal, 2020, 130, 109698.	2.6	87
88	Adsorption of silver from aqueous solution onto raw vermiculite and manganese oxide-modified vermiculite. Microporous and Mesoporous Materials, 2013, 170, 155-163.	2.2	82
89	Silica fume/capric acid-stearic acid PCM included-cementitious composite for thermal controlling of buildings: Thermal energy storage and mechanical properties. Energy, 2021, 219, 119588.	4.5	82
90	Synthesis, thermal energy storage properties and thermal reliability of some fatty acid esters with glycerol as novel solidâ€“liquid phase change materials. Solar Energy Materials and Solar Cells, 2010, 94, 1711-1715.	3.0	81

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91	Adsorption thermodynamics of stearic acid onto bentonite. Journal of Hazardous Materials, 2006, 135, 226-231.	6.5	80
92	Cd(II) adsorption from aqueous solution by raw and modified kaolinite. Applied Clay Science, 2014, 88-89, 63-72.	2.6	80
93	Thermal characteristics of a eutectic mixture of myristic and palmitic acids as phase change material for heating applications. Applied Thermal Engineering, 2003, 23, 1005-1017.	3.0	79
94	Thermal energy storage characteristics of poly(styrene-co-maleic anhydride)-graft-PEG as polymeric solidâ€“solid phase change materials. Solar Energy Materials and Solar Cells, 2017, 161, 219-225.	3.0	79
95	Adsorption Characteristics of Mercury(II) Ions from Aqueous Solution onto Chitosan-Coated Diatomite. Industrial & Engineering Chemistry Research, 2015, 54, 7524-7533.	1.8	78
96	Preparation, characterization, thermal energy storage properties and temperature control performance of form-stabilized sepiolite based composite phase change materials. Energy and Buildings, 2019, 188-189, 111-119.	3.1	78
97	Equilibrium, thermodynamic and kinetic studies on aluminum biosorption from aqueous solution by brown algae (Padina pavonica) biomass. Journal of Hazardous Materials, 2009, 171, 973-979.	6.5	75
98	Preparation and thermal energy storage properties of building material-based composites as novel form-stable PCMs. Energy and Buildings, 2012, 51, 73-83.	3.1	75
99	Thermal management performance and mechanical properties of a novel cementitious composite containing fly ash/lauric acid-myristic acid as form-stable phase change material. Construction and Building Materials, 2021, 274, 122105.	3.2	73
100	Preparation and thermal properties of capric acid/palmitic acid eutectic mixture as a phase change energy storage material. Materials Letters, 2008, 62, 903-906.	1.3	72
101	Biosorption of antimony from aqueous solution by lichen (Physcia tribacia) biomass. Chemical Engineering Journal, 2010, 163, 382-388.	6.6	71
102	Preparation and characterization of fatty acid ester/building material composites for thermal energy storage in buildings. Energy and Buildings, 2011, 43, 1952-1959.	3.1	71
103	Thermal Characteristics of Paraffin/Expanded Perlite Composite for Latent Heat Thermal Energy Storage. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2009, 31, 814-823.	1.2	70
104	Antimony(III) Adsorption from Aqueous Solution Using Raw Perlite and Mn-Modified Perlite: Equilibrium, Thermodynamic, and Kinetic Studies. Industrial & Engineering Chemistry Research, 2012, 51, 6877-6886.	1.8	70
105	Polystyrene microcapsules with palmitic-capric acid eutectic mixture as building thermal energy storage materials. Energy and Buildings, 2017, 150, 376-382.	3.1	69
106	Experimental performance evaluation of a novel designed phase change material integrated manifold heat pipe evacuated tube solar collector system. Energy Conversion and Management, 2019, 198, 111896.	4.4	68
107	Temperature distributions in trapezoidal built in storage solar water heaters with/without phase change materials. Energy Conversion and Management, 2006, 47, 2143-2154.	4.4	67
108	Thermal energy storage characteristics of myristic acid-palmitic eutectic mixtures encapsulated in PMMA shell. Solar Energy Materials and Solar Cells, 2019, 193, 1-6.	3.0	66

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109	Thermal energy storage properties of mannitolâ€“fatty acid esters as novel organic solidâ€“liquid phase change materials. Energy Conversion and Management, 2012, 64, 68-78.	4.4	65
110	Eutectic mixtures of some fatty acids for latent heat storage: Thermal properties and thermal reliability with respect to thermal cycling. Energy Conversion and Management, 2006, 47, 1207-1221.	4.4	64
111	Lauric and palmitic acids eutectic mixture as latent heat storage material for low temperature heating applications. Energy, 2005, 30, 677-692.	4.5	63
112	Effects of carbon-based fillers on thermal properties of fatty acids and their eutectics as phase change materials used for thermal energy storage: A Review. Journal of Energy Storage, 2021, 35, 102329.	3.9	63
113	Thermal regulating performance of gypsum/(C18â€“C24) composite phase change material (CPCM) for building energy storage applications. Applied Thermal Engineering, 2016, 107, 55-62.	3.0	62
114	Walnut shell derived bio-carbon/methyl palmitate as novel composite phase change material with enhanced thermal energy storage properties. Journal of Energy Storage, 2021, 35, 102288.	3.9	62
115	High Density Polyethylene/Paraffin Composites as Form-stable Phase Change Material for Thermal Energy Storage. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2007, 29, 261-270.	1.2	61
116	Microencapsulated heptadecane with calcium carbonate as thermal conductivity-enhanced phase change material for thermal energy storage. Journal of Molecular Liquids, 2021, 328, 115508.	2.3	61
117	Interfacial polymerization of trimesoyl chloride with melamine and palygorskite for efficient uranium ions ultra-removal. Chemical Engineering Research and Design, 2020, 159, 353-361.	2.7	59
118	Latent heat energy storage characteristics of building composites of bentonite clay and pumice sand with different organic PCMs. International Journal of Energy Research, 2014, 38, 1478-1491.	2.2	58
119	Thermal Energy Storage System Using a Technical Grade Paraffin Wax as Latent Heat Energy Storage Material. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 2005, 27, 1535-1546.	0.5	57
120	Microencapsulated n -alkane eutectics in polystyrene for solar thermal applications. Solar Energy, 2018, 160, 32-42.	2.9	57
121	Synthesis and Thermal Energy Storage Properties of Erythritol Tetrastearate and Erythritol Tetrapalmitate. Chemical Engineering and Technology, 2011, 34, 87-92.	0.9	56
122	Second Law Analysis of Various Types of Coal and Woody Biomass in Turkey. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 2004, 26, 1083-1094.	0.5	55
123	Preparation and thermal properties of ethylene glycole distearate as a novel phase change material for energy storage. Materials Letters, 2008, 62, 1122-1125.	1.3	55
124	Lauric and myristic acids eutectic mixture as phase change material for low-temperature heating applications. International Journal of Energy Research, 2005, 29, 857-870.	2.2	54
125	Renewable Energy Sources in the European Union: Markets and Capacity. Energy Sources, Part B: Economics, Planning and Policy, 2007, 2, 19-29.	1.8	54
126	Kinetic and equilibrium studies of Pb(II) and Cd(II) removal from aqueous solution onto colemanite ore waste. Desalination, 2009, 249, 260-266.	4.0	50

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127	Galactitol hexa stearate and galactitol hexa palmitate as novel solidâ€“liquid phase change materials for thermal energy storage. Solar Energy, 2011, 85, 2061-2071.	2.9	50
128	Eudragit S (methyl methacrylate methacrylic acid copolymer)/fatty acid blends as form-stable phase change material for latent heat thermal energy storage. Journal of Applied Polymer Science, 2006, 101, 1402-1406.	1.3	49
129	Evaluation of pumice for development of low-cost and energy-efficient composite phase change materials and lab-scale thermoregulation performances of its cementitious plasters. Energy, 2020, 207, 118242.	4.5	49
130	Investigation of physico-mechanical, thermal properties and solar thermoregulation performance of shape-stable attapulgite based composite phase change material in foam concrete. Solar Energy, 2022, 236, 51-62.	2.9	49
131	Thermal Energy Storage System Using Some Fatty Acids as Latent Heat Energy Storage Materials. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 2001, 23, 275-285.	0.5	48
132	Synthesis, characterization and evaluation of carbon nanofiber modified-polymer for ultra-removal of thorium ions from aquatic media. Chemical Engineering Research and Design, 2020, 163, 76-84.	2.7	48
133	New kinds of energy-storing building composite PCMs for thermal energy storage. Energy Conversion and Management, 2013, 69, 148-156.	4.4	46
134	Low cost and eco-friendly wood fiber-based composite phase change material: Development, characterization and lab-scale thermoregulation performance for thermal energy storage. Energy, 2020, 195, 116983.	4.5	46
135	Glass fiber reinforced gypsum composites with microencapsulated PCM as novel building thermal energy storage material. Construction and Building Materials, 2022, 340, 127788.	3.2	45
136	Biosorption of As(III) and As(V) from Aqueous Solution by Lichen (Xanthoria parietina) Biomass. Separation Science and Technology, 2010, 45, 463-471.	1.3	44
137	Evaluation of carbonized waste tire for development of novel shape stabilized composite phase change material for thermal energy storage. Waste Management, 2020, 103, 352-360.	3.7	44
138	PCM integrated glass in glass tube solar collector for low and medium temperature applications: Thermodynamic & techno-economic approach. Energy, 2020, 198, 117238.	4.5	44
139	Eco-friendly building materials containing micronized expanded vermiculite and phase change material for solar based thermo-regulation applications. Construction and Building Materials, 2021, 308, 125062.	3.2	44
140	Capric-stearic acid mixture impregnated carbonized waste sugar beet pulp as leak-resistive composite phase change material with effective thermal conductivity and thermal energy storage performance. Energy, 2022, 247, 123501.	4.5	44
141	Removal of Cr(VI) From Aqueous Solution by Turkish Vermiculite: Equilibrium, Thermodynamic and Kinetic Studies. Separation Science and Technology, 2008, 43, 3563-3581.	1.3	43
142	Encapsulated Fatty Acids in an Acrylic Resin as Shape-stabilized Phase Change Materials for Latent Heat Thermal Energy Storage. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2008, 30, 1050-1059.	1.2	43
143	Cement based-thermal energy storage mortar including blast furnace slag/capric acid shape-stabilized phase change material: Physical, mechanical, thermal properties and solar thermoregulation performance. Energy and Buildings, 2022, 258, 111849.	3.1	42
144	Synthesis and thermal energy storage properties of xylitol pentastearate and xylitol pentapalmitate as novel solidâ€“liquid PCMs. Solar Energy Materials and Solar Cells, 2012, 102, 125-130.	3.0	41

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145	Porous biochar/heptadecane composite phase change material with leak-proof, high thermal energy storage capacity and enhanced thermal conductivity. Powder Technology, 2021, 394, 1017-1025.	2.1	39
146	Synthesis and thermal properties of poly(styrene-co-ally alcohol)-graft-stearic acid copolymers as novel solidâ€“solid PCMs for thermal energy storage. Solar Energy, 2012, 86, 2282-2292.	2.9	38
147	Magnetic vermiculite-modified by poly(trimesoyl chloride-melamine) as a sorbent for enhanced removal of bisphenol A. Journal of Environmental Chemical Engineering, 2019, 7, 103436.	3.3	38
148	Fatty Acid/Expanded Graphite Composites as Phase Change Material for Latent Heat Thermal Energy Storage. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2008, 30, 464-474.	1.2	37
149	Investigation of thermal properties and enhanced energy storage/release performance of silica fume/myristic acid composite doped with carbon nanotubes. Renewable Energy, 2019, 140, 779-788.	4.3	37
150	Thermal energy storage and thermal conductivity properties of fatty acid/fatty acid-grafted-CNTs and fatty acid/CNTs as novel composite phase change materials. Scientific Reports, 2020, 10, 15388.	1.6	37
151	Capric Acid and Myristic Acid for Latent Heat Thermal Energy Storage. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2008, 30, 1498-1507.	1.2	36
152	Effects of carbon nanotubes additive on thermal conductivity and thermal energy storage properties of a novel composite phase change material. Journal of Composite Materials, 2019, 53, 2967-2980.	1.2	35
153	Carbon nanotubes grafted with poly(trimesoyl, m-phenylenediamine) for enhanced removal of phenol. Journal of Environmental Management, 2019, 252, 109660.	3.8	34
154	Stability and thermal conductivity enhancement of aqueous nanofluid based on surfactant-modified TiO₂. Journal of Dispersion Science and Technology, 2020, 41, 374-382.	1.3	34
155	Carbonized waste hazelnut woodâ€based shapeâ€stable composite phase change materials for thermal management implementations. International Journal of Energy Research, 2021, 45, 10271-10284.	2.2	34
156	Thermal energy storage characteristics of micro-nanoencapsulated heneicosane and octacosane with poly(methylmethacrylate) shell. Journal of Microencapsulation, 2016, 33, 221-228.	1.2	32
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