

Zhengguo Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

174
papers

11,924
citations

21215

62
h-index

36203

101
g-index

174
all docs

174
docs citations

174
times ranked

9302
citing authors

#	ARTICLE	IF	CITATIONS
1	3D shape-stable temperature-regulated macro-encapsulated phase change material: $KAl(SO_4)_2 \cdot 12H_2O$ - $C_2H_2O_4 \cdot 2H_2O$ - $CO(NH_2)_2$ eutectic/polyurethane foam as core and carbon modified silicone resin as shell. <i>Journal of Materials Science and Technology</i> , 2022, 100, 27-35.	5.6	17
2	Numerical modeling and optimization of annual thermal characteristics of an office room with PCM active-passive coupling system. <i>Energy and Buildings</i> , 2022, 254, 111629.	3.1	26
3	Anisotropically conductive $Mg(NO_3)_2 \cdot 6H_2O$ /g-C ₃ N ₄ -graphite sheet phase change material for enhanced photo-thermal storage. <i>Chemical Engineering Journal</i> , 2022, 430, 132997.	6.6	26
4	Thermochemical heat storage system for preventing battery thermal runaway propagation using sodium acetate trihydrate/expanded graphite. <i>Chemical Engineering Journal</i> , 2022, 433, 133536.	6.6	34
5	Experimental and Simulative Investigations on a Water Immersion Cooling System for Cylindrical Battery Cells. <i>Frontiers in Energy Research</i> , 2022, 10, .	1.2	8
6	Experimental research and numerical simulation of the thermal performance of a tube-fin cold energy storage unit using water/modified expanded graphite as the phase change material. <i>Energy Storage and Saving</i> , 2022, 1, 71-79.	3.0	7
7	Preparation and thermal performance enhancement of sodium thiosulfate pentahydrate- sodium acetate trihydrate /expanded graphite phase change energy storage composites. <i>Journal of Energy Storage</i> , 2022, 50, 104074.	3.9	12
8	Phase Change Composite with Core-Shell Structure for Photothermal Conversion and Thermal Energy Storage. <i>ACS Applied Energy Materials</i> , 2022, 5, 9109-9117.	2.5	8
9	Capillary performance analysis of copper powder-fiber composite wick for ultra-thin heat pipe. <i>Heat and Mass Transfer</i> , 2021, 57, 949-960.	1.2	8
10	SiO ₂ hydrophilic modification of expanded graphite to fabricate form-stable ternary nitrate composite room temperature phase change material for thermal energy storage. <i>Chemical Engineering Journal</i> , 2021, 413, 127549.	6.6	50
11	A fast-heat battery system using the heat released from detonated supercooled phase change materials. <i>Energy</i> , 2021, 219, 119496.	4.5	46
12	Thermal protection of electronic devices based on thermochemical energy storage. <i>Applied Thermal Engineering</i> , 2021, 186, 116507.	3.0	12
13	Experimental and numerical research on thermal performance of a novel thermal energy storage unit with phase change material. <i>Applied Thermal Engineering</i> , 2021, 186, 116493.	3.0	19
14	Polyurethane macro-encapsulation for $CH_3COONa \cdot 3H_2O$ - $Na_2S_2O_3 \cdot 5H_2O$ /Melamine sponge to fabricate form-stable composite phase change material. <i>Chemical Engineering Journal</i> , 2021, 410, 128308.	6.6	48
15	Phase change material-coat for battery thermal management with integrated rapid heating and cooling functions from $\sim 40^\circ C$ to $50^\circ C$. <i>Materials Today Energy</i> , 2021, 20, 100652.	2.5	33
16	A delayed cooling system coupling composite phase change material and nano phase change material emulsion. <i>Applied Thermal Engineering</i> , 2021, 191, 116888.	3.0	34
17	Numerical Study on Energy-Saving Performance of a New Type of Phase Change Material Room. <i>Energies</i> , 2021, 14, 3874.	1.6	5
18	Form-stable paraffin/graphene aerogel/copper foam composite phase change material for solar energy conversion and storage. <i>Solar Energy Materials and Solar Cells</i> , 2021, 226, 111083.	3.0	75

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19	Battery thermal management based on multiscale encapsulated inorganic phase change material of high stability. <i>Applied Thermal Engineering</i> , 2021, 193, 117002.	3.0	73
20	Numerical analysis of battery thermal management system coupling with low-thermal-conductive phase change material and liquid cooling. <i>Journal of Energy Storage</i> , 2021, 39, 102605.	3.9	17
21	Macro-encapsulated 3D phase change material: Na ₂ S ₂ O ₃ ·5H ₂ O-NaOAc·3H ₂ O/carbonized Melamine sponge composite as core and SiC modified polyurethane thin-layer as shell. <i>Composites Science and Technology</i> , 2021, 214, 108981.	3.8	20
22	Structure effect of the envelope coupled with heat reflective coating and phase change material in lowering indoor temperature. <i>Journal of Energy Storage</i> , 2021, 41, 102963.	3.9	10
23	Fabrication and thermal properties of CaCl ₂ ·6H ₂ O@CO(NH ₂) ₂ /SiO ₂ as room-temperature shape-stable composite PCM for building thermal insulation. <i>Solar Energy Materials and Solar Cells</i> , 2021, 232, 111355.	3.0	29
24	Upgrade strategy of commercial liquid-cooled battery thermal management system using electric insulating flexible composite phase change materials. <i>Applied Thermal Engineering</i> , 2021, 199, 117562.	3.0	26
25	Simulative optimization on energy saving performance of phase change panels with different phase transition temperatures. <i>Sustainable Cities and Society</i> , 2020, 52, 101833.	5.1	20
26	Preparation and performance of modified expanded graphite/eutectic salt composite phase change cold storage material. <i>International Journal of Refrigeration</i> , 2020, 110, 178-186.	1.8	41
27	Numerical simulation on the thermal performance of a PCM-containing ventilation system with a continuous change in inlet air temperature. <i>Renewable Energy</i> , 2020, 145, 1608-1619.	4.3	32
28	Facilitated synthesis and thermal performances of novel SiO ₂ coating Na ₂ HPO ₄ ·7H ₂ O microcapsule as phase change material for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2020, 206, 110257.	3.0	28
29	Hydrophilic modification of expanded graphite to develop form-stable composite phase change material based on modified CaCl ₂ ·6H ₂ O. <i>Energy</i> , 2020, 190, 116473.	4.5	61
30	Delayed liquid cooling strategy with phase change material to achieve high temperature uniformity of Li-ion battery under high-rate discharge. <i>Journal of Power Sources</i> , 2020, 450, 227673.	4.0	109
31	Computationally efficient thermal network model and its application in optimization of battery thermal management system with phase change materials and long-term performance assessment. <i>Applied Energy</i> , 2020, 259, 114120.	5.1	75
32	Optimal roof structure with multilayer cooling function materials for building energy saving. <i>International Journal of Energy Research</i> , 2020, 44, 1594-1606.	2.2	17
33	Liquid cooling with phase change materials for cylindrical Li-ion batteries: An experimental and numerical study. <i>Energy</i> , 2020, 191, 116565.	4.5	106
34	A highly stable hydroxylated graphene/ethylene glycol-water nanofluid with excellent extinction property at a low loading for direct absorption solar collectors. <i>Thermochimica Acta</i> , 2020, 684, 178487.	1.2	24
35	Mini-channel cold plate with nano phase change material emulsion for Li-ion battery under high-rate discharge. <i>Applied Energy</i> , 2020, 279, 115808.	5.1	56
36	Experimental and numerical investigation of sebacic acid/expanded graphite composite phase change material in a double-spiral coiled heat exchanger. <i>Journal of Energy Storage</i> , 2020, 32, 101849.	3.9	21

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37	Modifying the bridging N atoms of polymeric carbon nitride to achieve highly enhanced photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2020, 530, 147287.	3.1	11
38	One-Pot Synthesis of Two-Linker Mixed Al-Based Metal-Organic Frameworks for Modulated Water Vapor Adsorption. <i>Crystal Growth and Design</i> , 2020, 20, 6565-6572.	1.4	17
39	A nickel and cobalt bimetal organic framework with high capacity as an anode material for lithium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5757-5764.	2.5	47
40	Crafting visible-light-absorbing dye-doped phase change microspheres for enhancing solar-thermal utilization performance. <i>Solar Energy Materials and Solar Cells</i> , 2020, 218, 110759.	3.0	14
41	Development of polyurethane acrylate coated salt hydrate/diatomite form-stable phase change material with enhanced thermal stability for building energy storage. <i>Construction and Building Materials</i> , 2020, 259, 119714.	3.2	46
42	Low-Temperature Rapid Synthesis and Performance of the MIL-100(Fe) Monolithic Adsorbent for Dehumidification. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7291-7298.	1.8	7
43	Experimental and simulative investigations on a phase change material nano-emulsion-based liquid cooling thermal management system for a lithium-ion battery pack. <i>Energy</i> , 2020, 207, 118215.	4.5	95
44	Effect of expanded graphite size on performances of modified CaCl ₂ ·6H ₂ O phase change material for cold energy storage. <i>Microporous and Mesoporous Materials</i> , 2020, 305, 110403.	2.2	58
45	Fabrication and characterization of electrospun fatty acid form-stable phase change materials in the presence of copper nanoparticles. <i>International Journal of Energy Research</i> , 2020, 44, 8567-8577.	2.2	25
46	Experimental investigation on the thermal performance of double-layer PCM radiant floor system containing two types of inorganic composite PCMs. <i>Energy and Buildings</i> , 2020, 211, 109806.	3.1	47
47	Form-stable Na ₂ SO ₄ ·10H ₂ O/Na ₂ HPO ₄ ·12H ₂ O eutectic/hydrophilic fumed silica composite phase change material with low supercooling and low thermal conductivity for indoor thermal comfort improvement. <i>International Journal of Energy Research</i> , 2020, 44, 3171-3182.	2.2	32
48	Dry gel conversion synthesis and performance of glass-fiber MIL-100(Fe) composite desiccant material for dehumidification. <i>Microporous and Mesoporous Materials</i> , 2020, 297, 110034.	2.2	15
49	Investigation on water vapor adsorption performance of LiCl@MIL-100(Fe) composite adsorbent for adsorption heat pumps. <i>International Journal of Energy Research</i> , 2020, 44, 5895-5904.	2.2	16
50	Glucocorticoids Promote the Onset of Acute Experimental Colitis and Cancer by Upregulating mTOR Signaling in Intestinal Epithelial Cells. <i>Cancers</i> , 2020, 12, 945.	1.7	16
51	Growth of the Phase Change Enthalpy Induced by the Crystal Transformation of an Inorganic-Organic Eutectic Mixture of Magnesium Nitrate Hexahydrate-Glutaric Acid. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6751-6760.	1.8	23
52	A sodium acetate trihydrate-formamide/expanded perlite composite with high latent heat and suitable phase change temperatures for use in building roof. <i>Construction and Building Materials</i> , 2019, 226, 859-867.	3.2	45
53	In Situ Synthesis and Performance of Aluminum Fumarate Metal-Organic Framework Monolithic Adsorbent for Water Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 15712-15720.	1.8	19
54	Microinfiltration of Mg(NO ₃) ₂ ·6H ₂ O into g-C ₃ N ₄ and macroencapsulation with commercial sealants: A two-step method to enhance the thermal stability of inorganic composite phase change materials. <i>Applied Energy</i> , 2019, 253, 113540.	5.1	34

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55	Improving the heat storage/release rate and photo-thermal conversion performance of an organic PCM/expanded graphite composite block. <i>Solar Energy Materials and Solar Cells</i> , 2019, 201, 110081.	3.0	67
56	Insight into the Enhanced Hydrogen Evolution Activity of 2,4-Diaminopyrimidine-Doped Graphitic Carbon Nitride Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2228-2237.	1.5	25
57	A High-Efficiency and Low-Cost Interfacial Evaporation System Based on Graphene-Loaded Pyramid Polyurethane Sponge for Wastewater and Seawater Treatments. <i>ACS Applied Energy Materials</i> , 2019, 2, 7223-7232.	2.5	64
58	Preparation and properties of phase change temperature-tuned composite phase change material based on sodium acetate trihydrate/urea/fumed silica for radiant floor heating system. <i>Applied Thermal Engineering</i> , 2019, 162, 114253.	3.0	54
59	Mixed-Solvothermal Synthesis of MIL-101(Cr) and Its Water Adsorption/Desorption Performance. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 2983-2990.	1.8	33
60	Compounding $MgCl_2 \cdot 6H_2O$ with $NH_4Al(SO_4)_2 \cdot 12H_2O$ or $KAl(SO_4)_2 \cdot 12H_2O$ to Obtain Binary Hydrated Salts as High-Performance Phase Change Materials. <i>Molecules</i> , 2019, 24, 363.	1.7	16
61	Thermal properties enhancement and application of a novel sodium acetate trihydrate-formamide/expanded graphite shape-stabilized composite phase change material for electric radiant floor heating. <i>Applied Thermal Engineering</i> , 2019, 150, 1177-1185.	3.0	88
62	Characterization and thermal performance of microencapsulated sodium thiosulfate pentahydrate as phase change material for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2019, 193, 149-156.	3.0	36
63	Improvement of thermal performance of novel heat exchanger with latent heat storage. <i>International Journal of Heat and Mass Transfer</i> , 2019, 140, 877-885.	2.5	31
64	Enhanced photocatalytic performance of polymeric C_3N_4 doped with theobromine composed of an imidazole ring and a pyrimidine ring. <i>Chinese Journal of Catalysis</i> , 2019, 40, 875-885.	6.9	30
65	Improved desorption performance of NaA zeolite by rare earth (Re = La, Nd) ion exchange. <i>Heat and Mass Transfer</i> , 2019, 55, 3179-3187.	1.2	4
66	Exploration of a thermal therapy respirator by introducing a composite phase change block into a commercial mask. <i>International Journal of Thermal Sciences</i> , 2019, 142, 156-162.	2.6	13
67	Dry Gel Conversion Synthesis of Hierarchical Porous MIL-100(Fe) and Its Water Vapor Adsorption/Desorption Performance. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 7801-7807.	1.8	24
68	Preparation and performance of form-stable TBAB hydrate/SiO ₂ composite PCM for cold energy storage. <i>International Journal of Refrigeration</i> , 2019, 101, 117-124.	1.8	36
69	Enhanced charge separation and transport efficiency induced by vertical slices on the surface of carbon nitride for visible-light-driven hydrogen evolution. <i>RSC Advances</i> , 2019, 9, 4404-4414.	1.7	3
70	A direct absorption solar collector based on a water-ethylene glycol based nanofluid with anti-freeze property and excellent dispersion stability. <i>Renewable Energy</i> , 2019, 133, 760-769.	4.3	36
71	Salt hydrate/expanded vermiculite composite as a form-stable phase change material for building energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2019, 189, 33-42.	3.0	130
72	Modification of expanded graphite and its adsorption for hydrated salt to prepare composite PCMs. <i>Applied Thermal Engineering</i> , 2018, 133, 446-451.	3.0	75

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73	Novel facile self-assembly approach to construct graphene oxide-decorated phase-change microcapsules with enhanced photo-to-thermal conversion performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4535-4543.	5.2	75
74	Optimization of thermal management system for Li-ion batteries using phase change material. <i>Applied Thermal Engineering</i> , 2018, 131, 766-778.	3.0	94
75	A polymer-coated calcium chloride hexahydrate/expanded graphite composite phase change material with enhanced thermal reliability and good applicability. <i>Composites Science and Technology</i> , 2018, 156, 78-86.	3.8	74
76	Thermal management performance of phase change materials with different thermal conductivities for Li-ion battery packs operated at low temperatures. <i>Energy</i> , 2018, 144, 977-983.	4.5	154
77	Mesoporous g-C ₃ N ₄ nanosheets prepared by calcining a novel supramolecular precursor for high-efficiency photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2018, 450, 46-56.	3.1	91
78	Three-dimensional g-C ₃ N ₄ aggregates of hollow bubbles with high photocatalytic degradation of tetracycline. <i>Carbon</i> , 2018, 136, 103-112.	5.4	67
79	Microwave hydrothermal synthesis and performance of NaA zeolite monolithic adsorbent with honeycomb ceramic matrix. <i>Microporous and Mesoporous Materials</i> , 2018, 259, 116-122.	2.2	13
80	Enhanced photocatalytic hydrogen evolution performance of mesoporous graphitic carbon nitride co-doped with potassium and iodine. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 362-370.	10.8	122
81	Preparation of phase change material emulsions with good stability and little supercooling by using a mixed polymeric emulsifier for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2018, 176, 381-390.	3.0	66
82	A novel route combined precursor-hydrothermal pretreatment with microwave heating for preparing holey g-C ₃ N ₄ nanosheets with high crystalline quality and extended visible light absorption. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 22-29.	10.8	108
83	Characterization of medium-temperature phase change materials for solar thermal energy storage using temperature history method. <i>Solar Energy Materials and Solar Cells</i> , 2018, 179, 152-160.	3.0	43
84	Novel MgCl ₂ -KCl/expanded graphite/graphite paper composite phase change blocks with high thermal conductivity and large latent heat. <i>Solar Energy</i> , 2018, 159, 226-233.	2.9	30
85	Two types of composite phase change panels containing a ternary hydrated salt mixture for use in building envelope and ventilation system. <i>Energy Conversion and Management</i> , 2018, 177, 306-314.	4.4	39
86	Experimental and numerical investigation on the novel latent heat exchanger with paraffin/expanded graphite composite. <i>Applied Thermal Engineering</i> , 2018, 144, 836-844.	3.0	36
87	Improving thermal management of electronic apparatus with paraffin (PA)/expanded graphite (EG)/graphene (GN) composite material. <i>Applied Thermal Engineering</i> , 2018, 140, 13-22.	3.0	50
88	Numerical investigation on non-Newtonian fluid flowing in heat exchanger with different elliptic aspect ratios and helical angles. <i>Applied Thermal Engineering</i> , 2018, 141, 164-173.	3.0	7
89	In-situ microwave-assisted heating synthesis of a high-performance g-C ₃ N ₄ /carbon nanotubes composite photocatalyst with good contact interfaces. <i>Materials Research Bulletin</i> , 2018, 106, 152-161.	2.7	26
90	Iron doped aluminophosphate molecular sieve with improved adsorption capacity for water vapor. <i>Adsorption</i> , 2018, 24, 551-561.	1.4	6

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91	Research progress on novel solar steam generation system based on black nanomaterials. Canadian Journal of Chemical Engineering, 2018, 96, 2086-2099.	0.9	13
92	Effective Capture of Carbon Dioxide Using Hydrated Sodium Carbonate Powders. Materials, 2018, 11, 183.	1.3	19
93	Compact liquid cooling strategy with phase change materials for Li-ion batteries optimized using response surface methodology. Applied Energy, 2018, 228, 777-788.	5.1	139
94	Optimization on the photo-thermal conversion performance of graphite nanoplatelets decorated phase change material emulsions. Solar Energy Materials and Solar Cells, 2018, 186, 340-348.	3.0	38
95	Novel wall panels containing CaCl ₂ ·6H ₂ O-Mg(NO ₃) ₂ ·6H ₂ O/expanded graphite composites with different phase change temperatures for building energy savings. Energy and Buildings, 2018, 176, 407-417.	3.1	35
96	Preparation and performance of modified calcium chloride hexahydrate composite phase change material for air-conditioning cold storage. International Journal of Refrigeration, 2018, 95, 175-181.	1.8	44
97	Preparation of Al ₂ O ₃ -coated expanded graphite with enhanced hydrophilicity and oxidation resistance. Ceramics International, 2018, 44, 16256-16264.	2.3	23
98	A shape-stabilized MgCl ₂ ·6H ₂ O@Mg(NO ₃) ₂ ·6H ₂ O/expanded graphite composite phase change material with high thermal conductivity and stability. Journal of Applied Electrochemistry, 2018, 48, 1131-1138.	1.5	15
99	One-Pot Facile Synthesis of Graphene Quantum Dots from Rice Husks for Fe ³⁺ Sensing. Industrial & Engineering Chemistry Research, 2018, 57, 9144-9150.	1.8	73
100	Reduced graphene oxide dispersed nanofluids with improved photo-thermal conversion performance for direct absorption solar collectors. Solar Energy Materials and Solar Cells, 2017, 163, 125-133.	3.0	102
101	Self-assembly Synthesis and Properties of Microencapsulated n-Tetradecane Phase Change Materials with a Calcium Carbonate Shell for Cold Energy Storage. ACS Sustainable Chemistry and Engineering, 2017, 5, 3074-3080.	3.2	80
102	Single-step One-pot Synthesis of Graphene Foam/TiO ₂ Nanosheet Hybrids for Effective Water Treatment. Scientific Reports, 2017, 7, 43755.	1.6	30
103	Characterization and fluorine-free microwave hydrothermal synthesis of AlPO ₄₋₅ molecular sieves as adsorbents. Journal of Porous Materials, 2017, 24, 315-325.	1.3	7
104	Monodisperse Na ₂ SO ₄ ·10H ₂ O@SiO ₂ Microparticles against Supercooling and Phase Separation during Phase Change for Efficient Energy Storage. Industrial & Engineering Chemistry Research, 2017, 56, 3297-3308.	1.8	33
105	Photoluminescent carbon quantum dot grafted silica nanoparticles directly synthesized from rice husk biomass. Journal of Materials Chemistry B, 2017, 5, 4679-4689.	2.9	71
106	Luminescence Mechanism of Carbon-Incorporated Silica Nanoparticles Derived from Rice Husk Biomass. Industrial & Engineering Chemistry Research, 2017, 56, 5906-5912.	1.8	26
107	Fabrication and characterization of form-stable capric-palmitic-stearic acid ternary eutectic mixture/nano-SiO ₂ composite phase change material. Energy and Buildings, 2017, 147, 41-46.	3.1	63
108	Single-step One-pot Synthesis of TiO ₂ Nanosheets Doped with Sulfur on Reduced Graphene Oxide with Enhanced Photocatalytic Activity. Scientific Reports, 2017, 7, 46610.	1.6	36

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109	Experimental investigation of heat transfer and pressure drop characteristics of non-Newtonian nanofluids flowing in the shell-side of a helical baffle heat exchanger with low-finned tubes. <i>Heat and Mass Transfer</i> , 2017, 53, 2813-2827.	1.2	9
110	A novel process for preparing molten salt/expanded graphite composite phase change blocks with good uniformity and small volume expansion. <i>Solar Energy Materials and Solar Cells</i> , 2017, 169, 280-286.	3.0	56
111	Preparation and photo-thermal conversion performance of modified graphene/ionic liquid nanofluids with excellent dispersion stability. <i>Solar Energy Materials and Solar Cells</i> , 2017, 170, 219-232.	3.0	51
112	Optical absorption property and photo-thermal conversion performance of graphene oxide/water nanofluids with excellent dispersion stability. <i>Solar Energy</i> , 2017, 148, 17-24.	2.9	96
113	Experimental and numerical investigations on the thermal performance of building plane containing CaCl ₂ ·6H ₂ O/expanded graphite composite phase change material. <i>Applied Energy</i> , 2017, 193, 325-335.	5.1	112
114	Highly stable graphite nanoparticle-dispersed phase change emulsions with little supercooling and high thermal conductivity for cold energy storage. <i>Applied Energy</i> , 2017, 188, 97-106.	5.1	86
115	Grafting Fe(III) species on carbon nanodots/Fe-doped g-C ₃ N ₄ via interfacial charge transfer effect for highly improved photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 173-181.	10.8	150
116	Investigations on the thermal stability, long-term reliability of LiNO ₃ /KCl expanded graphite composite as industrial waste heat storage material and its corrosion properties with metals. <i>Applied Energy</i> , 2017, 188, 521-528.	5.1	53
117	Thermal performance of CaCl ₂ ·6H ₂ O/expanded perlite composite phase change boards embedded in aluminous gusset plates for building energy conservation. <i>Energy and Buildings</i> , 2017, 155, 484-491.	3.1	23
118	MgCl ₂ ·6H ₂ O-Mg(NO ₃) ₂ ·6H ₂ O eutectic/SiO ₂ composite phase change material with improved thermal reliability and enhanced thermal conductivity. <i>Solar Energy Materials and Solar Cells</i> , 2017, 172, 195-201.	3.0	83
119	A numerical study of building integrated with CaCl ₂ ·6H ₂ O/expanded graphite composite phase change material. <i>Applied Thermal Engineering</i> , 2017, 126, 480-488.	3.0	41
120	Hydrophilic Modification of Expanded Graphite to Prepare a High-Performance Composite Phase Change Block Containing a Hydrate Salt. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 14799-14806.	1.8	45
121	A one-step process for preparing a phenyl-modified g-C ₃ N ₄ green phosphor with a high quantum yield. <i>RSC Advances</i> , 2017, 7, 51702-51710.	1.7	27
122	Preparation of graphite nanoparticles-modified phase change microcapsules and their dispersed slurry for direct absorption solar collectors. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 159-166.	3.0	80
123	Experimental and Numerical Investigation on Non-Newtonian Nanofluids Flowing in Shell Side of Helical Baffled Heat Exchanger Combined with Elliptic Tubes. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 48.	1.3	13
124	Inorganic Salt Hydrate for Thermal Energy Storage. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1317.	1.3	100
125	A calcium chloride hexahydrate/expanded perlite composite with good heat storage and insulation properties for building energy conservation. <i>Renewable Energy</i> , 2017, 114, 733-743.	4.3	89
126	Warming-Up Effects of Phase Change Materials on Lithium-Ion Batteries Operated at Low Temperatures. <i>Energy Technology</i> , 2016, 4, 1071-1076.	1.8	63

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127	Preparation and Characterization of Hygroscopic CMC Graft Copolymer/Silica Gel Composite Adsorbent. <i>Journal of Chemical Engineering of Japan</i> , 2016, 49, 622-629.	0.3	5
128	Effects of electric field on micro-scale flame properties of biobutanol fuel. <i>Scientific Reports</i> , 2016, 6, 32938.	1.6	6
129	A capricâ€palmiticâ€stearic acid ternary eutectic mixture/expanded graphite composite phase change material for thermal energy storage. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 87, 138-145.	3.8	123
130	Ultrathin g-C ₃ N ₄ nanosheets coupled with carbon nanodots as 2D/0D composites for efficient photocatalytic H ₂ evolution. <i>Applied Catalysis B: Environmental</i> , 2016, 193, 248-258.	10.8	322
131	Preparation and thermal energy storage properties of d-Mannitol/expanded graphite composite phase change material. <i>Solar Energy Materials and Solar Cells</i> , 2016, 155, 141-146.	3.0	92
132	Effect of morphology of carbon nanomaterials on thermo-physical characteristics, optical properties and photo-thermal conversion performance of nanofluids. <i>Renewable Energy</i> , 2016, 99, 888-897.	4.3	65
133	Preparation and Thermal Performance of Silica/Tetradecane Microencapsulated Phase Change Material for Cold Energy Storage. <i>Energy & Fuels</i> , 2016, 30, 9652-9657.	2.5	54
134	Insight into the Enhanced Photocatalytic Activity of Potassium and Iodine Codoped Graphitic Carbon Nitride Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25328-25337.	1.5	82
135	Constructing a novel ternary Fe(III)/graphene/g-C ₃ N ₄ composite photocatalyst with enhanced visible-light driven photocatalytic activity via interfacial charge transfer effect. <i>Applied Catalysis B: Environmental</i> , 2016, 183, 231-241.	10.8	301
136	Microencapsulation of phase change materials with binary cores and calcium carbonate shell for thermal energy storage. <i>Applied Energy</i> , 2016, 171, 113-119.	5.1	189
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