

Xiaoming Fang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

6,125
citations

44
h-index

77
g-index

98
ext. papers

7,276
ext. citations

8
avg, IF

6.37
L-index

#	Paper	IF	Citations
97	Compatible paraffin@SiO ₂ microcapsules/polydimethylsiloxane composites with heat storage capacity and enhanced thermal conductivity for thermal management. <i>Composites Science and Technology</i> , 2022 , 218, 109192	8.6	3
96	Thermal protection of electronic devices based on thermochemical energy storage. <i>Applied Thermal Engineering</i> , 2021 , 186, 116507	5.8	4
95	A delayed cooling system coupling composite phase change material and nano phase change material emulsion. <i>Applied Thermal Engineering</i> , 2021 , 191, 116888	5.8	14
94	Numerical Study on Energy-Saving Performance of a New Type of Phase Change Material Room. <i>Energies</i> , 2021 , 14, 3874	3.1	3
93	Performance enhancement of a photovoltaic module using phase change material nanoemulsion as a novel cooling fluid. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 225, 111060	6.4	6
92	Battery thermal management based on multiscale encapsulated inorganic phase change material of high stability. <i>Applied Thermal Engineering</i> , 2021 , 193, 117002	5.8	14
91	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	7.8	4
90	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	6.4	4
89	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	7.9	50
88	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	7	24
87	Optimal roof structure with multilayer cooling function materials for building energy saving. <i>International Journal of Energy Research</i> , 2020 , 44, 1594-1606	4.5	11
86	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	2.9	13
85	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	10.7	22
84	Robust route to highly porous graphitic carbon nitride microtubes with preferred adsorption ability via rational design of one-dimension supramolecular precursors for efficient photocatalytic CO ₂ conversion. <i>Nano Energy</i> , 2020 , 77, 105104	17.1	32
83	Modifying the bridging N atoms of polymeric carbon nitride to achieve highly enhanced photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2020 , 530, 147287	6.7	8
82	Simulative optimization on energy saving performance of phase change panels with different phase transition temperatures. <i>Sustainable Cities and Society</i> , 2020 , 52, 101833	10.1	10
81	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	8.1	19

80	Molecular engineering of supramolecular precursor to modulate g-C ₃ N ₄ for boosting photocatalytic hydrogen evolution. <i>Carbon</i> , 2020 , 164, 337-348	10.4	19
79	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	3.9	9
78	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	6.1	36
77	Compounding MgCl ₂ ·6H ₂ O with NH ₄ Al(SO ₄) ₂ ·2H ₂ O or KAl(SO ₄) ₂ ·2H ₂ O to Obtain Binary Hydrated Salts as High-Performance Phase Change Materials. <i>Molecules</i> , 2019 , 24,	4.8	9
76	Enhanced photocatalytic performance of polymeric C ₃ N ₄ doped with theobromine composed of an imidazole ring and a pyrimidine ring. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 875-885	11.3	15
75	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	4.1	6
74	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	3.7	3
73	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	6.7	21
72	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	10.7	15
71	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	6.4	39
70	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	3.8	15
69	A comprehensive review on phase change material emulsions: Fabrication, characteristics, and heat transfer performance. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 191, 218-234	6.4	64
68	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	8.1	23
67	Modification of expanded graphite and its adsorption for hydrated salt to prepare composite PCMs. <i>Applied Thermal Engineering</i> , 2018 , 133, 446-451	5.8	44
66	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	13	50
65	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	8.6	47
64	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	7.9	97
63	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	6.7	63

62	Three-dimensional g-C ₃ N ₄ aggregates of hollow bubbles with high photocatalytic degradation of tetracycline. <i>Carbon</i> , 2018 , 136, 103-112	10.4	48
61	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	21.8	86
60	Research progress on novel solar steam generation system based on black nanomaterials. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 2086-2099	2.3	7
59	Optimization on the photo-thermal conversion performance of graphite nanoplatelets decorated phase change material emulsions. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 186, 340-348	6.4	28
58	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. <i>Energy and Buildings</i> , 2018 , 176, 407-417	7.7	30
57	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. <i>Journal of Applied Electrochemistry</i> , 2018 , 48, 1131-1138	2.6	6
56	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	6.4	44
55	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	21.8	76
54	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	6.8	18
53	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	10.6	32
52	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	5.1	21
51	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	2.2	8
50	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	6.4	40
49	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	6.4	39
48	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	6.8	77
47	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	10.7	92
46	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	10.7	61
45	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	21.8	113

44	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	7	18
43	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	6.4	58
42	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	5.8	27
41	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	3.9	25
40	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	3.7	22
39	A recyclable thermochromic elastic phase change oleogel for cold compress therapy. <i>Applied Thermal Engineering</i> , 2017 , 124, 1224-1232	5.8	5
38	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	6.4	56
37	Experimental and numerical investigations on a flexible paraffin/fiber composite phase change material for thermal therapy mask. <i>Energy Storage Materials</i> , 2017 , 6, 36-45	19.4	51
36	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	2.6	10
35	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	8.1	66
34	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	3.8	64
33	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	21.8	241
32	One-pot hydrothermal synthesis of Ni-doped ZnIn ₂ S ₄ nanostructured film photoelectrodes with enhanced photoelectrochemical performance. <i>Applied Surface Science</i> , 2016 , 370, 252-259	6.7	31
31	Graphite nanoparticles-dispersed paraffin/water emulsion with enhanced thermal-physical property and photo-thermal performance. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 147, 101-107	6.4	51
30	Warming-Up Effects of Phase Change Materials on Lithium-Ion Batteries Operated at Low Temperatures. <i>Energy Technology</i> , 2016 , 4, 1071-1076	3.5	37
29	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	21.8	250
28	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	8.1	51
27	Novel slurry containing graphene oxide-grafted microencapsulated phase change material with enhanced thermo-physical properties and photo-thermal performance. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 29-37	6.4	97

26	RT100/expand graphite composite phase change material with excellent structure stability, photo-thermal performance and good thermal reliability. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 140, 158-166	6.4	94
25	A hybrid thermal management system for lithium ion batteries combining phase change materials with forced-air cooling. <i>Applied Energy</i> , 2015 , 148, 403-409	10.7	351
24	Experimental and numerical investigation of form-stable dodecane/hydrophobic fumed silica composite phase change materials for cold energy storage. <i>Energy Conversion and Management</i> , 2015 , 105, 817-825	10.6	34
23	Thermal conductivity of an organic phase change material/expanded graphite composite across the phase change temperature range and a novel thermal conductivity model. <i>Energy Conversion and Management</i> , 2015 , 102, 202-208	10.6	180
22	Preparation, Mechanical and Thermal Properties of Cement Board with Expanded Perlite Based Composite Phase Change Material for Improving Buildings Thermal Behavior. <i>Materials</i> , 2015 , 8, 7702-7713	7.5	24
21	Textural and electronic structure engineering of carbon nitride via doping with deficient aromatic pyridine ring for improving photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2015 , 170-171, 10-16	21.8	117
20	A combined numerical and experimental study on graphene/ionic liquid nanofluid based direct absorption solar collector. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 136, 177-186	6.4	146
19	Novel Z-scheme visible-light-driven Ag ₃ PO ₄ /Ag/SiC photocatalysts with enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4652-4658	13	113
18	Review on thermal management systems using phase change materials for electronic components, Li-ion batteries and photovoltaic modules. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 31, 427-438	16.2	296
17	Thermodynamic properties and thermal stability of ionic liquid-based nanofluids containing graphene as advanced heat transfer fluids for medium-to-high-temperature applications. <i>Renewable Energy</i> , 2014 , 63, 519-523	8.1	159
16	A novel sebacic acid/expanded graphite composite phase change material for solar thermal medium-temperature applications. <i>Solar Energy</i> , 2014 , 99, 283-290	6.8	95
15	Two-Step Precise Determination of the Parameters of the Single-Diode Equivalent Circuit Model for Dye-Sensitized Solar Cells. <i>Heat Transfer Engineering</i> , 2014 , 35, 1007-1013	1.7	3
14	Radiative properties of ionic liquid-based nanofluids for medium-to-high-temperature direct absorption solar collectors. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 521-528	6.4	80
13	A nontoxic and low-cost hydrothermal route for synthesis of hierarchical Cu ₂ ZnSnS ₄ particles. <i>Nanoscale Research Letters</i> , 2014 , 9, 208	5	25
12	In Situ Template-Free Ion-Exchange Process to Prepare Visible-Light-Active g-C ₃ N ₄ /NiS Hybrid Photocatalysts with Enhanced Hydrogen Evolution Activity. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7801-7807	3.8	208
11	Thermal energy storage cement mortar containing n-octadecane/expanded graphite composite phase change material. <i>Renewable Energy</i> , 2013 , 50, 670-675	8.1	204
10	Surfactant-free ionic liquid-based nanofluids with remarkable thermal conductivity enhancement at very low loading of graphene. <i>Nanoscale Research Letters</i> , 2012 , 7, 314	5	92
9	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	2.4	38

8	Tuning and Enhancing White Light Emission of III-V Based Inorganic/Organic Hybrid Semiconductors as Single-Phased Phosphors. <i>Chemistry of Materials</i> , 2012 , 24, 1710-1717	9.6	72
7	Preparation and thermal energy storage properties of paraffin/expanded graphite composite phase change material. <i>Applied Energy</i> , 2012 , 91, 426-431	10.7	330
6	Hydrothermal transformation of titanate nanotubes into single-crystalline TiO ₂ nanomaterials with controlled phase composition and morphology. <i>Materials Research Bulletin</i> , 2010 , 45, 799-804	5.1	16
5	Design methods for large scale dye-sensitized solar modules and the progress of stability research. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 3178-3184	16.2	46
4	Study on preparation of montmorillonite-based composite phase change materials and their applications in thermal storage building materials. <i>Energy Conversion and Management</i> , 2008 , 49, 718-723	10.6	124
3	Study on paraffin/expanded graphite composite phase change thermal energy storage material. <i>Energy Conversion and Management</i> , 2006 , 47, 303-310	10.6	356
2	Comparison of Heat Transfer and Pressure Drop for the Helically Baffled Heat Exchanger Combined with Three-Dimensional and Two-Dimensional Finned Tubes. <i>Heat Transfer Engineering</i> , 2006 , 27, 17-22	1.7	15
1	A novel montmorillonite-based composite phase change material and its applications in thermal storage building materials. <i>Energy and Buildings</i> , 2006 , 38, 377-380	7	105