

# Xiaoming Fang

## List of Publications by Citations

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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	Study on paraffin/expanded graphite composite phase change thermal energy storage material. <i>Energy Conversion and Management</i> , <b>2006</b> , 47, 303-310	10.6	356
96	A hybrid thermal management system for lithium ion batteries combining phase change materials with forced-air cooling. <i>Applied Energy</i> , <b>2015</b> , 148, 403-409	10.7	351
95	Preparation and thermal energy storage properties of paraffin/expanded graphite composite phase change material. <i>Applied Energy</i> , <b>2012</b> , 91, 426-431	10.7	330
94	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> , <b>2014</b> , 31, 427-438	16.2	296
93	Ultrathin g-C <sub>3</sub> N <sub>4</sub> nanosheets coupled with carbon nanodots as 2D/0D composites for efficient photocatalytic H <sub>2</sub> evolution. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 193, 248-258	21.8	250
92	Constructing a novel ternary Fe(III)/graphene/g-C <sub>3</sub> N <sub>4</sub> composite photocatalyst with enhanced visible-light driven photocatalytic activity via interfacial charge transfer effect. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 183, 231-241	21.8	241
91	In Situ Template-Free Ion-Exchange Process to Prepare Visible-Light-Active g-C <sub>3</sub> N <sub>4</sub> /NiS Hybrid Photocatalysts with Enhanced Hydrogen Evolution Activity. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 7801-7807	3.8	208
90	Thermal energy storage cement mortar containing n-octadecane/expanded graphite composite phase change material. <i>Renewable Energy</i> , <b>2013</b> , 50, 670-675	8.1	204
89	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> , <b>2015</b> , 102, 202-208	10.6	180
88	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> , <b>2014</b> , 63, 519-523	8.1	159
87	A combined numerical and experimental study on graphene/ionic liquid nanofluid based direct absorption solar collector. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 136, 177-186	6.4	146
86	Study on preparation of montmorillonite-based composite phase change materials and their applications in thermal storage building materials. <i>Energy Conversion and Management</i> , <b>2008</b> , 49, 718-723	10.6	124
85	Textural and electronic structure engineering of carbon nitride via doping with efficient aromatic pyridine ring for improving photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 170-171, 10-16	21.8	117
84	Grafting Fe(III) species on carbon nanodots/Fe-doped g-C <sub>3</sub> N <sub>4</sub> via interfacial charge transfer effect for highly improved photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 205, 173-181	21.8	113
83	Novel Z-scheme visible-light-driven Ag <sub>3</sub> PO <sub>4</sub> /Ag/SiC photocatalysts with enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4652-4658	13	113
82	A novel montmorillonite-based composite phase change material and its applications in thermal storage building materials. <i>Energy and Buildings</i> , <b>2006</b> , 38, 377-380	7	105
81	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> , <b>2015</b> , 143, 29-37	6.4	97

80	Thermal management performance of phase change materials with different thermal conductivities for Li-ion battery packs operated at low temperatures. <i>Energy</i> , <b>2018</b> , 144, 977-983	7.9	97
79	A novel sebacic acid/expanded graphite composite phase change material for solar thermal medium-temperature applications. <i>Solar Energy</i> , <b>2014</b> , 99, 283-290	6.8	95
78	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> , <b>2015</b> , 140, 158-166	6.4	94
77	Experimental and numerical investigations on the thermal performance of building plane containing CaCl <sub>2</sub> ·6H <sub>2</sub> O/expanded graphite composite phase change material. <i>Applied Energy</i> , <b>2017</b> , 193, 325-335	10.7	92
76	Surfactant-free ionic liquid-based nanofluids with remarkable thermal conductivity enhancement at very low loading of graphene. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 314	5	92
75	Enhanced photocatalytic hydrogen evolution performance of mesoporous graphitic carbon nitride co-doped with potassium and iodine. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 221, 362-370	21.8	86
74	Radiative properties of ionic liquid-based nanofluids for medium-to-high-temperature direct absorption solar collectors. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 130, 521-528	6.4	80
73	Optical absorption property and photo-thermal conversion performance of graphene oxide/water nanofluids with excellent dispersion stability. <i>Solar Energy</i> , <b>2017</b> , 148, 17-24	6.8	77
72	A novel route combined precursor-hydrothermal pretreatment with microwave heating for preparing holey g-C <sub>3</sub> N <sub>4</sub> nanosheets with high crystalline quality and extended visible light absorption. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 225, 22-29	21.8	76
71	Tuning and Enhancing White Light Emission of III-V Based Inorganic/Organic Hybrid Semiconductors as Single-Phased Phosphors. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 1710-1717	9.6	72
70	A calcium chloride hexahydrate/expanded perlite composite with good heat storage and insulation properties for building energy conservation. <i>Renewable Energy</i> , <b>2017</b> , 114, 733-743	8.1	66
69	Insight into the Enhanced Photocatalytic Activity of Potassium and Iodine Codoped Graphitic Carbon Nitride Photocatalysts. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 25328-25337	3.8	64
68	A comprehensive review on phase change material emulsions: Fabrication, characteristics, and heat transfer performance. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 191, 218-234	6.4	64
67	Mesoporous g-C <sub>3</sub> N <sub>4</sub> nanosheets prepared by calcining a novel supramolecular precursor for high-efficiency photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , <b>2018</b> , 450, 46-56	6.7	63
66	Highly stable graphite nanoparticle-dispersed phase change emulsions with little supercooling and high thermal conductivity for cold energy storage. <i>Applied Energy</i> , <b>2017</b> , 188, 97-106	10.7	61
65	MgCl <sub>2</sub> ·6H <sub>2</sub> O-Mg(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O eutectic/SiO <sub>2</sub> composite phase change material with improved thermal reliability and enhanced thermal conductivity. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 172, 195-201	6.4	58
64	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> , <b>2017</b> , 159, 159-166	6.4	56
63	Graphite nanoparticles-dispersed paraffin/water emulsion with enhanced thermal-physical property and photo-thermal performance. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 147, 101-107	6.4	51

62	Experimental and numerical investigations on a flexible paraffin/fiber composite phase change material for thermal therapy mask. <i>Energy Storage Materials</i> , <b>2017</b> , 6, 36-45	19.4	51
61	Effect of morphology of carbon nanomaterials on thermo-physical characteristics, optical properties and photo-thermal conversion performance of nanofluids. <i>Renewable Energy</i> , <b>2016</b> , 99, 888-897	8.1	51
60	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> , <b>2020</b> , 207, 118215	7.9	50
59	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> , <b>2018</b> , 6, 4535-4543	13	50
58	Three-dimensional g-C <sub>3</sub> N <sub>4</sub> aggregates of hollow bubbles with high photocatalytic degradation of tetracycline. <i>Carbon</i> , <b>2018</b> , 136, 103-112	10.4	48
57	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> , <b>2018</b> , 156, 78-86	8.6	47
56	Design methods for large scale dye-sensitized solar modules and the progress of stability research. <i>Renewable and Sustainable Energy Reviews</i> , <b>2010</b> , 14, 3178-3184	16.2	46
55	Modification of expanded graphite and its adsorption for hydrated salt to prepare composite PCMs. <i>Applied Thermal Engineering</i> , <b>2018</b> , 133, 446-451	5.8	44
54	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> , <b>2018</b> , 176, 381-390	6.4	44
53	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> , <b>2017</b> , 169, 280-286	6.4	40
52	Preparation and photo-thermal conversion performance of modified graphene/ionic liquid nanofluids with excellent dispersion stability. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 170, 219-232	6.4	39
51	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> , <b>2019</b> , 201, 110081	6.4	39
50	Fabrication and characterization of nanocapsules containing n-dodecanol by miniemulsion polymerization using interfacial redox initiation. <i>Colloid and Polymer Science</i> , <b>2012</b> , 290, 307-314	2.4	38
49	Warming-Up Effects of Phase Change Materials on Lithium-Ion Batteries Operated at Low Temperatures. <i>Energy Technology</i> , <b>2016</b> , 4, 1071-1076	3.5	37
48	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> , <b>2019</b> , 2, 7223-7232	6.1	36
47	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> , <b>2015</b> , 105, 817-825	10.6	34
46	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 <sub>2</sub> conversion. <i>Nano Energy</i> , <b>2020</b> , 77, 105104	17.1	32
45	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> , <b>2018</b> , 177, 306-314	10.6	32

44	One-pot hydrothermal synthesis of Ni-doped ZnIn <sub>2</sub> S <sub>4</sub> nanostructured film photoelectrodes with enhanced photoelectrochemical performance. <i>Applied Surface Science</i> , <b>2016</b> , 370, 252-259	6.7	31
43	Novel wall panels containing CaCl <sub>2</sub> ·6H <sub>2</sub> O-Mg(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O/expanded graphite composites with different phase change temperatures for building energy savings. <i>Energy and Buildings</i> , <b>2018</b> , 176, 407-417	7.7	30
42	Optimization on the photo-thermal conversion performance of graphite nanoplatelets decorated phase change material emulsions. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 186, 340-348	6.4	28
41	A numerical study of building integrated with CaCl <sub>2</sub> ·6H <sub>2</sub> O/expanded graphite composite phase change material. <i>Applied Thermal Engineering</i> , <b>2017</b> , 126, 480-488	5.8	27
40	A nontoxic and low-cost hydrothermal route for synthesis of hierarchical Cu <sub>2</sub> ZnSnS <sub>4</sub> particles. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 208	5	25
39	Hydrophilic Modification of Expanded Graphite to Prepare a High-Performance Composite Phase Change Block Containing a Hydrate Salt. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 14799-14807	7.9	25
38	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> , <b>2020</b> , 211, 109806	7	24
37	Preparation, Mechanical and Thermal Properties of Cement Board with Expanded Perlite Based Composite Phase Change Material for Improving Buildings Thermal Behavior. <i>Materials</i> , <b>2015</b> , 8, 7702-7713	7.5	24
36	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> , <b>2019</b> , 133, 760-769	8.1	23
35	A one-step process for preparing a phenyl-modified g-C <sub>3</sub> N <sub>4</sub> green phosphor with a high quantum yield. <i>RSC Advances</i> , <b>2017</b> , 7, 51702-51710	3.7	22
34	Mini-channel cold plate with nano phase change material emulsion for Li-ion battery under high-rate discharge. <i>Applied Energy</i> , <b>2020</b> , 279, 115808	10.7	22
33	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> , <b>2019</b> , 226, 859-867	6.7	21
32	In-situ microwave-assisted heating synthesis of a high-performance g-C <sub>3</sub> N <sub>4</sub> /carbon nanotubes composite photocatalyst with good contact interfaces. <i>Materials Research Bulletin</i> , <b>2018</b> , 106, 152-161	5.1	21
31	Numerical simulation on the thermal performance of a PCM-containing ventilation system with a continuous change in inlet air temperature. <i>Renewable Energy</i> , <b>2020</b> , 145, 1608-1619	8.1	19
30	Molecular engineering of supramolecular precursor to modulate g-C <sub>3</sub> N <sub>4</sub> for boosting photocatalytic hydrogen evolution. <i>Carbon</i> , <b>2020</b> , 164, 337-348	10.4	19
29	Thermal performance of CaCl <sub>2</sub> ·6H <sub>2</sub> O/expanded perlite composite phase change boards embedded in aluminous gusset plates for building energy conservation. <i>Energy and Buildings</i> , <b>2017</b> , 155, 484-491	7	18
28	Novel MgCl <sub>2</sub> -KCl/expanded graphite/graphite paper composite phase change blocks with high thermal conductivity and large latent heat. <i>Solar Energy</i> , <b>2018</b> , 159, 226-233	6.8	18
27	Hydrothermal transformation of titanate nanotubes into single-crystalline TiO <sub>2</sub> nanomaterials with controlled phase composition and morphology. <i>Materials Research Bulletin</i> , <b>2010</b> , 45, 799-804	5.1	16

26	Enhanced photocatalytic performance of polymeric C <sub>3</sub> N <sub>4</sub> doped with theobromine composed of an imidazole ring and a pyrimidine ring. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 875-885	11.3	15
25	Microinfiltration of Mg(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O into g-C <sub>3</sub> N <sub>4</sub> and macroencapsulation with commercial sealants: A two-step method to enhance the thermal stability of inorganic composite phase change materials. <i>Applied Energy</i> , <b>2019</b> , 253, 113540	10.7	15
24	Insight into the Enhanced Hydrogen Evolution Activity of 2,4-Diaminopyrimidine-Doped Graphitic Carbon Nitride Photocatalysts. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 2228-2237	3.8	15
23	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> , <b>2006</b> , 27, 17-22	1.7	15
22	A delayed cooling system coupling composite phase change material and nano phase change material emulsion. <i>Applied Thermal Engineering</i> , <b>2021</b> , 191, 116888	5.8	14
21	Battery thermal management based on multiscale encapsulated inorganic phase change material of high stability. <i>Applied Thermal Engineering</i> , <b>2021</b> , 193, 117002	5.8	14
20	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> , <b>2020</b> , 684, 178487	2.9	13
19	Optimal roof structure with multilayer cooling function materials for building energy saving. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 1594-1606	4.5	11
18	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> , <b>2017</b> , 7, 48	2.6	10
17	Simulative optimization on energy saving performance of phase change panels with different phase transition temperatures. <i>Sustainable Cities and Society</i> , <b>2020</b> , 52, 101833	10.1	10
16	Compounding MgCl <sub>2</sub> ·6H <sub>2</sub> O with NH <sub>4</sub> Al(SO <sub>4</sub> ) <sub>2</sub> ·12H <sub>2</sub> O or KAl(SO <sub>4</sub> ) <sub>2</sub> ·12H <sub>2</sub> O to Obtain Binary Hydrated Salts as High-Performance Phase Change Materials. <i>Molecules</i> , <b>2019</b> , 24,	4.8	9
15	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 &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 6751-6760	3.9	9
14	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> , <b>2017</b> , 53, 2813-2827	2.2	8
13	Modifying the bridging N atoms of polymeric carbon nitride to achieve highly enhanced photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , <b>2020</b> , 530, 147287	6.7	8
12	Research progress on novel solar steam generation system based on black nanomaterials. <i>Canadian Journal of Chemical Engineering</i> , <b>2018</b> , 96, 2086-2099	2.3	7
11	Exploration of a thermal therapy respirator by introducing a composite phase change block into a commercial mask. <i>International Journal of Thermal Sciences</i> , <b>2019</b> , 142, 156-162	4.1	6
10	A shape-stabilized MgCl <sub>2</sub> ·6H <sub>2</sub> O/Mg(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O/expanded graphite composite phase change material with high thermal conductivity and stability. <i>Journal of Applied Electrochemistry</i> , <b>2018</b> , 48, 1131-1138	2.6	6
9	Performance enhancement of a photovoltaic module using phase change material nanoemulsion as a novel cooling fluid. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 225, 111060	6.4	6

8	A recyclable thermochromic elastic phase change oleogel for cold compress therapy. <i>Applied Thermal Engineering</i> , <b>2017</b> , 124, 1224-1232	5.8	5
7	Crafting visible-light-absorbing dye-doped phase change microspheres for enhancing solar-thermal utilization performance. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 218, 110759	6.4	4
6	Thermal protection of electronic devices based on thermochemical energy storage. <i>Applied Thermal Engineering</i> , <b>2021</b> , 186, 116507	5.8	4
5	Structure effect of the envelope coupled with heat reflective coating and phase change material in lowering indoor temperature. <i>Journal of Energy Storage</i> , <b>2021</b> , 41, 102963	7.8	4
4	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> , <b>2019</b> , 9, 4404-4414	3.7	3
3	Two-Step Precise Determination of the Parameters of the Single-Diode Equivalent Circuit Model for Dye-Sensitized Solar Cells. <i>Heat Transfer Engineering</i> , <b>2014</b> , 35, 1007-1013	1.7	3
2	Compatible paraffin@SiO <sub>2</sub> microcapsules/polydimethylsiloxane composites with heat storage capacity and enhanced thermal conductivity for thermal management. <i>Composites Science and Technology</i> , <b>2022</b> , 218, 109192	8.6	3
1	Numerical Study on Energy-Saving Performance of a New Type of Phase Change Material Room. <i>Energies</i> , <b>2021</b> , 14, 3874	3.1	3