

# Shuangfeng Wang

## List of Publications by Year in descending order

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166  
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31976

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all docs

166  
docs citations

166  
times ranked

6041  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, fabrication, investigation and analysis of a novel flat evaporator loop heat pipe for cooling high heat flux server chips. Applied Thermal Engineering, 2022, 201, 117775.	6.0	25
2	Thermal performance of wickless and orientation independent thin vapor chambers with wettability patterned micro structure. Thermal Science, 2022, 26, 4391-4400.	1.1	2
3	Experimental investigation on thermal characteristics of a novel loop heat pipe for cooling high heat flux electronic chips. International Journal of Heat and Mass Transfer, 2022, 187, 122569.	4.8	22
4	D $\alpha$ -mannitol $\alpha$ -C based eutectic composite phase change materials with high thermal conductivity and solar $\alpha$ -thermal conversion. International Journal of Energy Research, 2022, 46, 15722-15732.	4.5	2
5	Phase Change Composite with Core $\alpha$ -Shell Structure for Photothermal Conversion and Thermal Energy Storage. ACS Applied Energy Materials, 2022, 5, 9109-9117.	5.1	8
6	Numerical study on effects of the cofferdam area in liquefied natural gas storage tank on the leakage and diffusion characteristics of natural gas. Chinese Journal of Chemical Engineering, 2021, 29, 228-241.	3.5	6
7	SiO $_2$ hydrophilic modification of expanded graphite to fabricate form-stable ternary nitrate composite room temperature phase change material for thermal energy storage. Chemical Engineering Journal, 2021, 413, 127549.	12.7	50
8	Investigation on preparation, thermal, and mechanical properties of carbon fiber decorated with hexagonal boron nitride/silicone rubber composites for battery thermal management. International Journal of Energy Research, 2021, 45, 4396-4409.	4.5	6
9	Design of flow pattern in air $\alpha$ -cooled battery thermal management system. International Journal of Energy Research, 2021, 45, 9541-9554.	4.5	15
10	Design of battery thermal management system based on phase change material and heat pipe. Applied Thermal Engineering, 2021, 188, 116665.	6.0	114
11	Polyurethane macro-encapsulation for CH $_3$ COONa $\alpha$ -3H $_2$ O-Na $_2$ S $_2$ O $_3$ $\alpha$ -5H $_2$ O/Melamine sponge to fabricate form-stable composite phase change material. Chemical Engineering Journal, 2021, 410, 128308.	12.7	48
12	Pore network simulations of liquid water and oxygen transport in gas diffusion layers with spatially variable wettability. Journal of Power Sources, 2021, 506, 230207.	7.8	10
13	Macro-encapsulated 3D phase change material: Na $_2$ S $_2$ O $_3$ $\alpha$ -5H $_2$ O-NaOAc $\alpha$ -3H $_2$ O/carbonized Melamine sponge composite as core and SiC modified polyurethane thin-layer as shell. Composites Science and Technology, 2021, 214, 108981.	7.8	20
14	Preparation and thermal performance of phase change material with high latent heat and thermal conductivity based on novel binary inorganic eutectic system. Solar Energy Materials and Solar Cells, 2021, 230, 111186.	6.2	20
15	Fabrication and thermal properties of CaCl $_2$ $\alpha$ -6H $_2$ O $\alpha$ -CO(NH $_2$ ) $_2$ /SiO $_2$ as room-temperature shape-stable composite PCM for building thermal insulation. Solar Energy Materials and Solar Cells, 2021, 232, 111355.	6.2	29
16	Modeling, design, materials and fabrication of bipolar plates for proton exchange membrane fuel cell: A review. Applied Energy, 2021, 301, 117443.	10.1	89
17	Thermal performance enhancement of vapor chamber with modified thin screen mesh wick by laser etching. Case Studies in Thermal Engineering, 2021, 28, 101525.	5.7	12
18	Dropwise Condensation by Nanoengineered Surfaces: Design, Mechanism, and Enhancing Strategies. Advanced Materials Interfaces, 2021, 8, 2101603.	3.7	8

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19	Numerical study on turbulent mixed convection in a vertical plane channel using hybrid RANS/LES and LES models. Chinese Journal of Chemical Engineering, 2020, 28, 1-8.	3.5	6
20	Facilitated synthesis and thermal performances of novel SiO <sub>2</sub> coating Na <sub>2</sub> HPO <sub>4</sub> ·7H <sub>2</sub> O microcapsule as phase change material for thermal energy storage. Solar Energy Materials and Solar Cells, 2020, 206, 110257.	6.2	28
21	Hydrophilic modification of expanded graphite to develop form-stable composite phase change material based on modified CaCl <sub>2</sub> ·6H <sub>2</sub> O. Energy, 2020, 190, 116473.	8.8	61
22	In-situ microwave hydrothermal synthesis and performance of chromium-substituted aluminophosphate zeolite coating on aluminum foil. Microporous and Mesoporous Materials, 2020, 294, 109900.	4.4	8
23	Numerical investigation of turbulent shear flows using production-limited delayed detached-eddy simulation. Canadian Journal of Chemical Engineering, 2020, 98, 1225-1236.	1.7	1
24	Construction of effective symmetrical air-cooled system for battery thermal management. Applied Thermal Engineering, 2020, 166, 114679.	6.0	150
25	One-Pot Synthesis of Two-Linker Mixed Al-Based Metal-Organic Frameworks for Modulated Water Vapor Adsorption. Crystal Growth and Design, 2020, 20, 6565-6572.	3.0	17
26	Low-Temperature Rapid Synthesis and Performance of the MIL-100(Fe) Monolithic Adsorbent for Dehumidification. Industrial & Engineering Chemistry Research, 2020, 59, 7291-7298.	3.7	7
27	An innovative battery thermal management with thermally induced flexible phase change material. Energy Conversion and Management, 2020, 221, 113145.	9.2	138
28	Effect of expanded graphite size on performances of modified CaCl <sub>2</sub> ·6H <sub>2</sub> O phase change material for cold energy storage. Microporous and Mesoporous Materials, 2020, 305, 110403.	4.4	58
29	Multi-parameter structure design of parallel mini-channel cold plate for battery thermal management. International Journal of Energy Research, 2020, 44, 4321-4334.	4.5	47
30	Development of heat transfer enhancement of a novel composite phase change material with adjustable phase change temperature. Solar Energy Materials and Solar Cells, 2020, 210, 110457.	6.2	23
31	Form-stable Na <sub>2</sub> SO <sub>4</sub> ·10H <sub>2</sub> O@Na <sub>2</sub> HPO <sub>4</sub> ·12H <sub>2</sub> O eutectic/hydrophilic fumed silica composite phase change material with low supercooling and low thermal conductivity for indoor thermal comfort improvement. International Journal of Energy Research, 2020, 44, 3171-3182.	4.5	32
32	Remaining useful life prediction of lithium-ion battery based on improved cuckoo search particle filter and a novel state of charge estimation method. Journal of Power Sources, 2020, 450, 227700.	7.8	112
33	Dry gel conversion synthesis and performance of glass-fiber MIL-100(Fe) composite desiccant material for dehumidification. Microporous and Mesoporous Materials, 2020, 297, 110034.	4.4	15
34	Experimental investigation on the thermal characteristics of ultra-thin flattened heat pipes with bending angles. Applied Thermal Engineering, 2020, 172, 115150.	6.0	7
35	Investigation on water vapor adsorption performance of LiCl@MIL-100(Fe) composite adsorbent for adsorption heat pumps. International Journal of Energy Research, 2020, 44, 5895-5904.	4.5	16
36	In Situ Synthesis and Performance of Aluminum Fumarate Metal-Organic Framework Monolithic Adsorbent for Water Adsorption. Industrial & Engineering Chemistry Research, 2019, 58, 15712-15720.	3.7	19

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37	A compact and lightweight liquid-cooled thermal management solution for cylindrical lithium-ion power battery pack. International Journal of Heat and Mass Transfer, 2019, 144, 118581.	4.8	167
38	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. Applied Thermal Engineering, 2019, 162, 114253.	6.0	54
39	Production- $\kappa$ limited delayed detached eddy simulation of turbulent flow and heat transfer. Canadian Journal of Chemical Engineering, 2019, 97, 2146-2156.	1.7	4
40	Mixed-Solvothermal Synthesis of MIL-101(Cr) and Its Water Adsorption/Desorption Performance. Industrial & Engineering Chemistry Research, 2019, 58, 2983-2990.	3.7	33
41	Experimental study on thermal performances of ultra-thin flattened heat pipes. International Journal of Heat and Mass Transfer, 2019, 134, 884-894.	4.8	38
42	Characterization and thermal performance of microencapsulated sodium thiosulfate pentahydrate as phase change material for thermal energy storage. Solar Energy Materials and Solar Cells, 2019, 193, 149-156.	6.2	36
43	Composite salt in MIL-101(Cr) with high water uptake and fast adsorption kinetics for adsorption heat pumps. Microporous and Mesoporous Materials, 2019, 286, 141-148.	4.4	32
44	Improved desorption performance of NaA zeolite by rare earth (Re $\neq$ La, Nd) ion exchange. Heat and Mass Transfer, 2019, 55, 3179-3187.	2.1	4
45	Dry Gel Conversion Synthesis of Hierarchical Porous MIL-100(Fe) and Its Water Vapor Adsorption/Desorption Performance. Industrial & Engineering Chemistry Research, 2019, 58, 7801-7807.	3.7	24
46	Pore network modeling of liquid water and oxygen transport through the porosity-graded bilayer gas diffusion layer of polymer electrolyte membrane fuel cells. Electrochimica Acta, 2019, 306, 264-276.	5.2	33
47	Experimental investigation of stepped short tube orifice as expansion device in domestic air conditioning/heat pump system. Energy and Buildings, 2019, 193, 240-249.	6.7	1
48	Preparation and performance of form-stable TBAB hydrate/SiO <sub>2</sub> composite PCM for cold energy storage. International Journal of Refrigeration, 2019, 101, 117-124.	3.4	36
49	Design of the structure of battery pack in parallel air-cooled battery thermal management system for cooling efficiency improvement. International Journal of Heat and Mass Transfer, 2019, 132, 309-321.	4.8	145
50	Turbulent thermal-hydraulic and thermodynamic characteristics in a traverse corrugated tube fitted with twin and triple wire coils. International Journal of Heat and Mass Transfer, 2019, 130, 483-495.	4.8	35
51	Form-stable and thermally induced flexible composite phase change material for thermal energy storage and thermal management applications. Applied Energy, 2019, 236, 10-21.	10.1	251
52	Cooling efficiency improvement of air-cooled battery thermal management system through designing the flow pattern. Energy, 2019, 167, 781-790.	8.8	235
53	A critical review of battery thermal performance and liquid based battery thermal management. Energy Conversion and Management, 2019, 182, 262-281.	9.2	642
54	Distribution of gas-liquid two-phase slug flow in parallel micro-channels with different branch spacing. International Journal of Heat and Mass Transfer, 2019, 132, 606-617.	4.8	27

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55	Low-temperature reversible capacity loss and aging mechanism in lithium-ion batteries for different discharge profiles. International Journal of Energy Research, 2019, 43, 243-253.	4.5	65
56	Structure optimization of parallel air-cooled battery thermal management system with U-type flow for cooling efficiency improvement. Energy, 2018, 145, 603-613.	8.8	169
57	Polymer-infiltrated approach to produce robust and easy repairable superhydrophobic mesh for high-efficiency oil/water separation. Journal of Materials Science, 2018, 53, 10554-10568.	3.7	23
58	A facile preparation of superhydrophobic halloysite-based meshes for efficient oil-water separation. Applied Clay Science, 2018, 156, 195-201.	5.2	36
59	High thermal conductive paraffin/calcium carbonate phase change microcapsules based composites with different carbon network. Applied Energy, 2018, 218, 184-191.	10.1	52
60	Thermal management optimization of a prismatic battery with shape-stabilized phase change material. International Journal of Heat and Mass Transfer, 2018, 121, 967-977.	4.8	133
61	Sulfur Dioxide Desorption Characteristics of Basic Alkali Aluminum Sulfate Desulfurization Rich Liquid by Falling Film Evaporation with a Spring Tube. Industrial & Engineering Chemistry Research, 2018, 57, 4115-4123.	3.7	2
62	Design of flow configuration for parallel air-cooled battery thermal management system with secondary vent. International Journal of Heat and Mass Transfer, 2018, 116, 1204-1212.	4.8	141
63	Microwave hydrothermal synthesis and performance of NaA zeolite monolithic adsorbent with honeycomb ceramic matrix. Microporous and Mesoporous Materials, 2018, 259, 116-122.	4.4	13
64	The phase distribution of gas-liquid two-phase flow in microimpacting T-junctions with different branch channel diameters. Chemical Engineering Journal, 2018, 333, 34-42.	12.7	21
65	Experimental research of the critical geometric parameters on subcooled flow boiling in confined microchannels. International Journal of Heat and Mass Transfer, 2018, 116, 73-83.	4.8	10
66	Investigation on critical heat flux of flow boiling in parallel microchannels with large aspect ratio: Experimental and theoretical analysis. International Journal of Heat and Mass Transfer, 2018, 127, 55-66.	4.8	15
67	Iron doped aluminophosphate molecular sieve with improved adsorption capacity for water vapor. Adsorption, 2018, 24, 551-561.	3.0	6
68	Experimental investigations of Alum/expanded graphite composite phase change material for thermal energy storage and its compatibility with metals. Energy, 2018, 161, 508-516.	8.8	56
69	A superhydrophobic polyacrylate film with good durability fabricated via spray coating. Journal of Materials Science, 2018, 53, 15390-15400.	3.7	12
70	Design of the cell spacings of battery pack in parallel air-cooled battery thermal management system. International Journal of Heat and Mass Transfer, 2018, 127, 393-401.	4.8	139
71	An investigation on optimal external cooling condition for an ultra-thin loop thermosyphon-based thermal management system. Energy Conversion and Management, 2018, 172, 328-342.	9.2	15
72	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.	3.4	44

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73	An experimental investigation on effect of channel configuration in ultra-shallow micro multi-channels flow boiling: Heat transfer enhancement and visualized presentation. <i>Experimental Thermal and Fluid Science</i> , 2017, 83, 239-247.	2.7	14
74	Self-assembly Synthesis and Properties of Microencapsulated <i>n</i> -Tetradecane Phase Change Materials with a Calcium Carbonate Shell for Cold Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3074-3080.	6.7	80
75	Experimental investigation on the thermal performance of heat pipe-assisted phase change material based battery thermal management system. <i>Energy Conversion and Management</i> , 2017, 138, 486-492.	9.2	323
76	Characterization and fluorine-free microwave hydrothermal synthesis of AlPO <sub>4</sub> -5 molecular sieves as adsorbents. <i>Journal of Porous Materials</i> , 2017, 24, 315-325.	2.6	7
77	Experimental study on effective thermal conductivity of microcapsules based phase change composites. <i>International Journal of Heat and Mass Transfer</i> , 2017, 109, 930-937.	4.8	54
78	Transient split features of slug flow at an impacting micro-T-junction: A numerical study. <i>International Journal of Heat and Mass Transfer</i> , 2017, 112, 318-332.	4.8	14
79	Preparation, thermal properties and thermal reliability of a novel mid-temperature composite phase change material for energy conservation. <i>Energy</i> , 2017, 130, 228-235.	8.8	24
80	Configuration optimization of battery pack in parallel air-cooled battery thermal management system using an optimization strategy. <i>Applied Thermal Engineering</i> , 2017, 123, 177-186.	6.0	121
81	Experimental investigation of mass flow rate difference between forward flow and reverse flow of sub-cooled R-22 through stepped short tube orifices. <i>Applied Thermal Engineering</i> , 2017, 124, 1292-1300.	6.0	1
82	Structure optimization of parallel air-cooled battery thermal management system. <i>International Journal of Heat and Mass Transfer</i> , 2017, 111, 943-952.	4.8	138
83	Gas-liquid two-phase flow distribution in parallel micro-channels with different header and channels' orientations. <i>International Journal of Heat and Mass Transfer</i> , 2017, 112, 767-778.	4.8	40
84	Optimization investigation on the liquid cooling heat dissipation structure for the lithium-ion battery package in electric vehicles. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2017, 231, 1735-1750.	1.9	19
85	Heat source layout optimization in two-dimensional heat conduction using simulated annealing method. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 210-219.	4.8	37
86	Heat transfer characteristics of flow boiling in horizontal ultra-shallow microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 501-511.	4.8	8
87	Thermophysical properties of <i>n</i> -tetradecane@polystyrene-silica composite nanoencapsulated phase change material slurry for cold energy storage. <i>Energy and Buildings</i> , 2017, 136, 26-32.	6.7	67
88	Inspired by <i>Stenocara</i> Beetles: From Water Collection to High-Efficiency Water-in-Oil Emulsion Separation. <i>ACS Nano</i> , 2017, 11, 760-769.	14.6	259
89	Experimental and numerical study of an integrated fin and micro-channel gas cooler for a CO <sub>2</sub> automotive air-conditioning. <i>Applied Thermal Engineering</i> , 2017, 116, 636-647.	6.0	39
90	Thermal optimization of composite PCM based large-format lithium-ion battery modules under extreme operating conditions. <i>Energy Conversion and Management</i> , 2017, 153, 22-33.	9.2	117

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91	Structural optimization of lithium-ion battery pack with forced air cooling system. Applied Thermal Engineering, 2017, 126, 583-593.	6.0	172
92	A lattice Boltzmann model for interphase conjugate heat transfer. Numerical Heat Transfer, Part B: Fundamentals, 2017, 72, 130-151.	0.9	4
93	Experimental investigation of two-phase slug flow distribution in horizontal multi-parallel micro-channels. Chemical Engineering Science, 2017, 158, 267-276.	3.8	25
94	Integration highly concentrated photovoltaic module exhaust heat recovery system with adsorption air-conditioning module via phase change materials. Energy, 2017, 118, 1187-1197.	8.8	23
95	Phase distribution of nitrogen–water two-phase flow in parallel micro channels. Heat and Mass Transfer, 2017, 53, 1175-1182.	2.1	3
96	A novel lattice Boltzmann model for the solid–liquid phase change with the convection heat transfer in the porous media. International Journal of Heat and Mass Transfer, 2017, 104, 675-687.	4.8	36
97	Design of Parallel Air-Cooled Battery Thermal Management System through Numerical Study. Energies, 2017, 10, 1677.	3.1	50
98	Facile Synthesis and Thermal Properties of Nanoencapsulated <i>n</i> -Dodecanol with SiO <sub>2</sub> Shell as Shape-Formed Thermal Energy Storage Material. Energy & Fuels, 2016, 30, 6153-6160.	5.1	67
99	High thermal conductivity phase change composite with a metal-stabilized carbon-fiber network. Applied Energy, 2016, 179, 1-6.	10.1	51
100	Multiple orientations research on heat transfer performances of Ultra-Thin Loop Heat Pipes with different evaporator structures. International Journal of Heat and Mass Transfer, 2016, 98, 415-425.	4.8	27
101	A facile one-step fabrication of robust superhydrophobic/superoleophilic cotton fabric using a crosslinkable POSS-containing fluorinated copolymer. Progress in Organic Coatings, 2016, 101, 522-529.	3.9	28
102	Experimental investigation on pressure drop characteristic of R410A through short tube orifices. Applied Thermal Engineering, 2016, 109, 672-677.	6.0	6
103	Visualization research on confined bubble growth feature and heat transfer characteristic in ultra-shallow micro channel. International Journal of Heat and Mass Transfer, 2016, 103, 847-854.	4.8	9
104	Enhancement on thermal properties of paraffin/calcium carbonate phase change microcapsules with carbon network. Applied Energy, 2016, 179, 601-608.	10.1	100
105	Preparation and Thermal Performance of Silica/ <i>n</i> -Tetradecane Microencapsulated Phase Change Material for Cold Energy Storage. Energy & Fuels, 2016, 30, 9652-9657.	5.1	54
106	Microencapsulation of phase change materials with binary cores and calcium carbonate shell for thermal energy storage. Applied Energy, 2016, 171, 113-119.	10.1	189
107	Thermal performance of phase change material/oscillating heat pipe-based battery thermal management system. International Journal of Thermal Sciences, 2016, 102, 9-16.	4.9	159
108	Optimization of heat source distribution for two-dimensional heat conduction using bionic method. International Journal of Heat and Mass Transfer, 2016, 93, 108-117.	4.8	36



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109	Experiment research on the effect of the evaporator's configuration design of an innovative ultra-thin looped heat pipe. International Journal of Heat and Mass Transfer, 2016, 92, 497-506.	4.8	23
110	High thermal conductivity phase change composite with percolating carbon fiber network. Applied Energy, 2015, 154, 678-685.	10.1	133
111	Experimental Investigation on the Characters of Ultra-thin Loop Heat Pipe Applied in BTMS. Energy Procedia, 2015, 75, 3192-3200.	1.8	19
112	Experiment study on heat transfer capability of an innovative gravity assisted ultra-thin looped heat pipe. International Journal of Thermal Sciences, 2015, 95, 106-114.	4.9	48
113	Fabrication of paraffin@SiO <sub>2</sub> shape-stabilized composite phase change material via chemical precipitation method for building energy conservation. Energy and Buildings, 2015, 108, 373-380.	6.7	68
114	Numerical study of flat plate solar collector with novel heat collecting components. International Communications in Heat and Mass Transfer, 2015, 69, 18-22.	5.6	39
115	Experimental investigation of two-phase slug flow splitting at a micro impacting T-junction. International Journal of Heat and Mass Transfer, 2015, 81, 939-948.	4.8	22
116	Cycle performance of air conditioning system based on finned tube heat exchangers with different helix angles. Applied Thermal Engineering, 2015, 78, 543-550.	6.0	2
117	Heat transfer enhancement of subcooled pool boiling with self-wettingting fluid. International Journal of Heat and Mass Transfer, 2015, 83, 64-68.	4.8	37
118	Experimental investigation on the efficiency of flat-plate solar collectors with nanofluids. Applied Thermal Engineering, 2015, 88, 165-171.	6.0	193
119	Synthesis, characterization and thermal properties of paraffin microcapsules modified with nano-Al <sub>2</sub> O <sub>3</sub> . Applied Energy, 2015, 137, 731-737.	10.1	215
120	Review on thermal management systems using phase change materials for electronic components, Li-ion batteries and photovoltaic modules. Renewable and Sustainable Energy Reviews, 2014, 31, 427-438.	16.4	398
121	Heat transfer enhancement of micro oscillating heat pipes with self-wettingting fluid. International Journal of Heat and Mass Transfer, 2014, 70, 496-503.	4.8	83
122	Study of Phase Splitting at a Micro-T-Junction. Heat Transfer Engineering, 2014, 35, 1114-1121.	1.9	7
123	Experimental investigation of annular two-phase flow splitting at a microimpacting T-junction. Chemical Engineering Science, 2014, 118, 154-163.	3.8	16
124	Heat transfer enhancement mechanism of pool boiling with self-wettingting fluid. International Journal of Heat and Mass Transfer, 2014, 79, 309-313.	4.8	27
125	Cycle performance of alternative refrigerants for domestic air-conditioning system based on a small finned tube heat exchanger. Applied Thermal Engineering, 2014, 64, 83-92.	6.0	39
126	Experimental and numerical investigation of the application of phase change materials in a simulative power batteries thermal management system. Applied Energy, 2014, 121, 104-113.	10.1	222



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127	Preparation and properties of 3-aminopropyltriethoxysilane functionalized graphene/polyurethane nanocomposite coatings. Colloid and Polymer Science, 2013, 291, 2765-2773.	2.1	31
128	Experimental investigation of Al–Cu composed tube–fin heat exchangers for air conditioner. Experimental Thermal and Fluid Science, 2013, 51, 264-270.	2.7	17
129	Molecular dynamics simulations of nano-encapsulated and nanoparticle-enhanced thermal energy storage phase change materials. International Journal of Heat and Mass Transfer, 2013, 66, 575-584.	4.8	79
130	Self diffusion and heat capacity of n-alkanes based phase change materials: A molecular dynamics study. International Journal of Heat and Mass Transfer, 2013, 64, 581-589.	4.8	46
131	Gas–liquid two-phase flow splitting at microchannel junctions with different branch angles. Chemical Engineering Science, 2013, 104, 881-890.	3.8	31
132	Thermal performance enhancement of grooved heat pipes with inner surface treatment. International Journal of Heat and Mass Transfer, 2013, 67, 416-419.	4.8	36
133	Simulation of a miniature oscillating heat pipe in bottom heating mode using CFD with unsteady modeling. International Journal of Heat and Mass Transfer, 2013, 57, 642-656.	4.8	83
134	Experimental investigation on photothermal properties of nanofluids for direct absorption solar thermal energy systems. Energy Conversion and Management, 2013, 73, 150-157.	9.2	156
135	Experimental investigation on thermal management of electric vehicle battery with heat pipe. Energy Conversion and Management, 2013, 65, 92-97.	9.2	386
136	Experimental investigation on condensation heat transfer of R134a on single horizontal copper and stainless steel three-dimensional finned tubes. , 2013, , .		6
137	Molecular dynamics simulations of phase transition of <i>n</i> -nonadecane under high pressure. Phase Transitions, 2012, 85, 400-408.	1.3	18
138	Molecular dynamics simulations of melting behavior of alkane as phase change materials slurry. Energy Conversion and Management, 2012, 64, 152-156.	9.2	27
139	Experimental study on thermophysical properties of nanofluids as phase-change material (PCM) in low temperature cool storage. Energy Conversion and Management, 2012, 64, 199-205.	9.2	192
140	Experimental investigation of two-phase distribution in parallel micro-T channels under adiabatic condition. Chemical Engineering Science, 2012, 84, 706-717.	3.8	35
141	Self diffusion of the nano-encapsulated phase change materials: A molecular dynamics study. Applied Energy, 2012, 100, 303-308.	10.1	50
142	Dissipative particle dynamics investigation of microencapsulated thermal energy storage phase change materials. Energy, 2012, 44, 805-812.	8.8	26
143	Experimental investigation on temperature oscillation in a miniature loop heat pipe with flat evaporator. Experimental Thermal and Fluid Science, 2012, 37, 29-36.	2.7	50
144	Experimental study on operating parameters of miniature loop heat pipe with flat evaporator. Applied Thermal Engineering, 2012, 40, 318-325.	6.0	31

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145	Three-dimensional simulation on heat transfer in the flat evaporator of miniature loop heat pipe. International Journal of Thermal Sciences, 2012, 54, 188-198.	4.9	28
146	Experimental evaluation on natural convection heat transfer of microencapsulated phase change materials slurry in a rectangular heat storage tank. Energy Conversion and Management, 2012, 59, 33-39.	9.2	51
147	Energy saving latent heat storage and environmental friendly humidity-controlled materials for indoor climate. Renewable and Sustainable Energy Reviews, 2012, 16, 3136-3145.	16.4	79
148	Experiment on heat storage characteristic of microencapsulated phase change material slurry. Solar Energy Materials and Solar Cells, 2011, 95, 2726-2733.	6.2	64
149	A review of power battery thermal energy management. Renewable and Sustainable Energy Reviews, 2011, 15, 4554-4571.	16.4	858
150	Phase split of nitrogen/non-Newtonian fluid two-phase flow at a micro-T-junction. International Journal of Multiphase Flow, 2011, 37, 1129-1134.	3.4	23
151	Simulation and experiment of thermal energy management with phase change material for ageing LiFePO <sub>4</sub> power battery. Energy Conversion and Management, 2011, 52, 3408-3414.	9.2	239
152	Heat transfer characteristics and LED heat sink application of aluminum plate oscillating heat pipes. Applied Thermal Engineering, 2011, 31, 2221-2229.	6.0	104
153	Effect of evaporation section and condensation section length on thermal performance of flat plate heat pipe. Applied Thermal Engineering, 2011, 31, 2367-2373.	6.0	56
154	The effect of flow pattern on split of two-phase flow through a micro-T-junction. International Journal of Heat and Mass Transfer, 2011, 54, 3587-3593.	4.8	43
155	The effect of surface tension on phase distribution of two-phase flow in a micro-T-junction. Chemical Engineering Science, 2011, 66, 3962-3968.	3.8	17
156	Experimental study on effective range of miniature oscillating heat pipes. Applied Thermal Engineering, 2011, 31, 880-886.	6.0	71
157	Air-side thermal hydraulic performance of an integrated fin and micro-channel heat exchanger. Energy Conversion and Management, 2011, 52, 983-989.	9.2	17
158	Phase splitting of a slug-annular flow at a horizontal micro-T-junction. International Journal of Heat and Mass Transfer, 2011, 54, 589-596.	4.8	14
159	Study on start-up characteristics of loop heat pipe under low-power. International Journal of Heat and Mass Transfer, 2011, 54, 1002-1007.	4.8	58
160	Numerical study on a slit fin-and-tube heat exchanger with longitudinal vortex generators. International Journal of Heat and Mass Transfer, 2011, 54, 1743-1751.	4.8	68
161	Numerical study on air-side performance of an integrated fin and micro-channel heat exchanger. Applied Thermal Engineering, 2010, 30, 2738-2745.	6.0	26
162	Experimental study on microcapsule fluid oscillating heat pipe. Science in China Series D: Earth Sciences, 2009, 52, 1601-1606.	0.9	12

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163	Experimental study on pulsating heat pipe with functional thermal fluids. International Journal of Heat and Mass Transfer, 2009, 52, 5276-5279.	4.8	73
164	Study on Miniature Oscillating Heat Pipes. Journal of Enhanced Heat Transfer, 2007, 14, 175-187.	1.1	4
165	Heat Transport Characteristics in Closed Loop Oscillating Heat Pipes. , 2005, , 805.		9
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