

Shuangfeng Wang

List of Publications by Year in descending order

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166
papers

11,214
citations

31976

53
h-index

32842

100
g-index

166
all docs

166
docs citations

166
times ranked

6041
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of power battery thermal energy management. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 4554-4571.	16.4	858
2	A critical review of battery thermal performance and liquid based battery thermal management. <i>Energy Conversion and Management</i> , 2019, 182, 262-281.	9.2	642
3	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.	16.4	398
4	Experimental investigation on thermal management of electric vehicle battery with heat pipe. <i>Energy Conversion and Management</i> , 2013, 65, 92-97.	9.2	386
5	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
6	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
7	Form-stable and thermally induced flexible composite phase change material for thermal energy storage and thermal management applications. <i>Applied Energy</i> , 2019, 236, 10-21.	10.1	251
8	Simulation and experiment of thermal energy management with phase change material for ageing LiFePO ₄ power battery. <i>Energy Conversion and Management</i> , 2011, 52, 3408-3414.	9.2	239
9	Cooling efficiency improvement of air-cooled battery thermal management system through designing the flow pattern. <i>Energy</i> , 2019, 167, 781-790.	8.8	235
10	Experimental and numerical investigation of the application of phase change materials in a simulative power batteries thermal management system. <i>Applied Energy</i> , 2014, 121, 104-113.	10.1	222
11	Synthesis, characterization and thermal properties of paraffin microcapsules modified with nano-Al ₂ O ₃ . <i>Applied Energy</i> , 2015, 137, 731-737.	10.1	215
12	Experimental investigation on the efficiency of flat-plate solar collectors with nanofluids. <i>Applied Thermal Engineering</i> , 2015, 88, 165-171.	6.0	193
13	Experimental study on thermophysical properties of nanofluids as phase-change material (PCM) in low temperature cool storage. <i>Energy Conversion and Management</i> , 2012, 64, 199-205.	9.2	192
14	Microencapsulation of phase change materials with binary cores and calcium carbonate shell for thermal energy storage. <i>Applied Energy</i> , 2016, 171, 113-119.	10.1	189
15	Structural optimization of lithium-ion battery pack with forced air cooling system. <i>Applied Thermal Engineering</i> , 2017, 126, 583-593.	6.0	172
16	Structure optimization of parallel air-cooled battery thermal management system with U-type flow for cooling efficiency improvement. <i>Energy</i> , 2018, 145, 603-613.	8.8	169
17	A compact and lightweight liquid-cooled thermal management solution for cylindrical lithium-ion power battery pack. <i>International Journal of Heat and Mass Transfer</i> , 2019, 144, 118581.	4.8	167
18	Thermal performance of phase change material/oscillating heat pipe-based battery thermal management system. <i>International Journal of Thermal Sciences</i> , 2016, 102, 9-16.	4.9	159

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19	Experimental investigation on photothermal properties of nanofluids for direct absorption solar thermal energy systems. <i>Energy Conversion and Management</i> , 2013, 73, 150-157.	9.2	156
20	Construction of effective symmetrical air-cooled system for battery thermal management. <i>Applied Thermal Engineering</i> , 2020, 166, 114679.	6.0	150
21	Design of the structure of battery pack in parallel air-cooled battery thermal management system for cooling efficiency improvement. <i>International Journal of Heat and Mass Transfer</i> , 2019, 132, 309-321.	4.8	145
22	Design of flow configuration for parallel air-cooled battery thermal management system with secondary vent. <i>International Journal of Heat and Mass Transfer</i> , 2018, 116, 1204-1212.	4.8	141
23	Design of the cell spacings of battery pack in parallel air-cooled battery thermal management system. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 393-401.	4.8	139
24	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
25	An innovative battery thermal management with thermally induced flexible phase change material. <i>Energy Conversion and Management</i> , 2020, 221, 113145.	9.2	138
26	High thermal conductivity phase change composite with percolating carbon fiber network. <i>Applied Energy</i> , 2015, 154, 678-685.	10.1	133
27	Thermal management optimization of a prismatic battery with shape-stabilized phase change material. <i>International Journal of Heat and Mass Transfer</i> , 2018, 121, 967-977.	4.8	133
28	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
29	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
30	Design of battery thermal management system based on phase change material and heat pipe. <i>Applied Thermal Engineering</i> , 2021, 188, 116665.	6.0	114
31	Remaining useful life prediction of lithium-ion battery based on improved cuckoo search particle filter and a novel state of charge estimation method. <i>Journal of Power Sources</i> , 2020, 450, 227700.	7.8	112
32	Heat transfer characteristics and LED heat sink application of aluminum plate oscillating heat pipes. <i>Applied Thermal Engineering</i> , 2011, 31, 2221-2229.	6.0	104
33	Enhancement on thermal properties of paraffin/calcium carbonate phase change microcapsules with carbon network. <i>Applied Energy</i> , 2016, 179, 601-608.	10.1	100
34	Modeling, design, materials and fabrication of bipolar plates for proton exchange membrane fuel cell: A review. <i>Applied Energy</i> , 2021, 301, 117443.	10.1	89
35	Simulation of a miniature oscillating heat pipe in bottom heating mode using CFD with unsteady modeling. <i>International Journal of Heat and Mass Transfer</i> , 2013, 57, 642-656.	4.8	83
36	Heat transfer enhancement of micro oscillating heat pipes with self-rewetting fluid. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 496-503.	4.8	83

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37	Self-assembly Synthesis and Properties of Microencapsulated <i>n</i> -Tetradecane Phase Change Materials with a Calcium Carbonate Shell for Cold Energy Storage. ACS Sustainable Chemistry and Engineering, 2017, 5, 3074-3080.	6.7	80
38	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
39	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
40	Experimental study on pulsating heat pipe with functional thermal fluids. International Journal of Heat and Mass Transfer, 2009, 52, 5276-5279.	4.8	73
41	Experimental study on effective range of miniature oscillating heat pipes. Applied Thermal Engineering, 2011, 31, 880-886.	6.0	71
42	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
43	Fabrication of paraffin@SiO ₂ shape-stabilized composite phase change material via chemical precipitation method for building energy conservation. Energy and Buildings, 2015, 108, 373-380.	6.7	68
44	Facile Synthesis and Thermal Properties of Nanoencapsulated <i>n</i> -Dodecanol with SiO ₂ Shell as Shape-Formed Thermal Energy Storage Material. Energy & Fuels, 2016, 30, 6153-6160.	5.1	67
45	Thermophysical properties of <i>n</i> -tetradecane@polystyrene-silica composite nanoencapsulated phase change material slurry for cold energy storage. Energy and Buildings, 2017, 136, 26-32.	6.7	67
46	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
47	Experiment on heat storage characteristic of microencapsulated phase change material slurry. Solar Energy Materials and Solar Cells, 2011, 95, 2726-2733.	6.2	64
48	Hydrophilic modification of expanded graphite to develop form-stable composite phase change material based on modified CaCl ₂ ·6H ₂ O. Energy, 2020, 190, 116473.	8.8	61
49	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
50	Effect of expanded graphite size on performances of modified CaCl ₂ ·6H ₂ O phase change material for cold energy storage. Microporous and Mesoporous Materials, 2020, 305, 110403.	4.4	58
51	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
52	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
53	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
54	Experimental study on effective thermal conductivity of microcapsules based phase change composites. International Journal of Heat and Mass Transfer, 2017, 109, 930-937.	4.8	54

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55	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
56	High thermal conductive paraffin/calcium carbonate phase change microcapsules based composites with different carbon network. Applied Energy, 2018, 218, 184-191.	10.1	52
57	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
58	High thermal conductivity phase change composite with a metal-stabilized carbon-fiber network. Applied Energy, 2016, 179, 1-6.	10.1	51
59	Self diffusion of the nano-encapsulated phase change materials: A molecular dynamics study. Applied Energy, 2012, 100, 303-308.	10.1	50
60	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
61	Design of Parallel Air-Cooled Battery Thermal Management System through Numerical Study. Energies, 2017, 10, 1677.	3.1	50
62	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
63	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
64	Polyurethane macro-encapsulation for CH ₃ COONa·3H ₂ O-Na ₂ S ₂ O ₃ ·5H ₂ O/Melamine sponge to fabricate form-stable composite phase change material. Chemical Engineering Journal, 2021, 410, 128308.	12.7	48
65	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
66	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
67	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
68	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
69	Gas-liquid two-phase flow distribution in parallel micro-channels with different header and channels' orientations. International Journal of Heat and Mass Transfer, 2017, 112, 767-778.	4.8	40
70	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
71	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
72	Experimental and numerical study of an integrated fin and micro-channel gas cooler for a CO ₂ automotive air-conditioning. Applied Thermal Engineering, 2017, 116, 636-647.	6.0	39

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73	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
74	Heat transfer enhancement of subcooled pool boiling with self-rewetting fluid. International Journal of Heat and Mass Transfer, 2015, 83, 64-68.	4.8	37
75	Heat source layout optimization in two-dimensional heat conduction using simulated annealing method. International Journal of Heat and Mass Transfer, 2017, 108, 210-219.	4.8	37
76	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
77	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
78	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
79	A facile preparation of superhydrophobic halloysite-based meshes for efficient oil-water separation. Applied Clay Science, 2018, 156, 195-201.	5.2	36
80	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
81	Preparation and performance of form-stable TBAB hydrate/SiO ₂ composite PCM for cold energy storage. International Journal of Refrigeration, 2019, 101, 117-124.	3.4	36
82	Experimental investigation of two-phase distribution in parallel micro-T channels under adiabatic condition. Chemical Engineering Science, 2012, 84, 706-717.	3.8	35
83	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
84	Mixed-Solvothermal Synthesis of MIL-101(Cr) and Its Water Adsorption/Desorption Performance. Industrial & Engineering Chemistry Research, 2019, 58, 2983-2990.	3.7	33
85	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
86	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
87	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. International Journal of Energy Research, 2020, 44, 3171-3182.	4.5	32
88	Experimental study on operating parameters of miniature loop heat pipe with flat evaporator. Applied Thermal Engineering, 2012, 40, 318-325.	6.0	31
89	Preparation and properties of 3-aminopropyltriethoxysilane functionalized graphene/polyurethane nanocomposite coatings. Colloid and Polymer Science, 2013, 291, 2765-2773.	2.1	31
90	Gas-liquid two-phase flow splitting at microchannel junctions with different branch angles. Chemical Engineering Science, 2013, 104, 881-890.	3.8	31

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91	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.	6.2	29
92	Fluctuation characteristics of two-phase flow splitting at a vertical impacting T-junction. <i>International Journal of Multiphase Flow</i> , 2002, 28, 2007-2016.	3.4	28
93	Three-dimensional simulation on heat transfer in the flat evaporator of miniature loop heat pipe. <i>International Journal of Thermal Sciences</i> , 2012, 54, 188-198.	4.9	28
94	A facile one-step fabrication of robust superhydrophobic/superoleophilic cotton fabric using a crosslinkable POSS-containing fluorinated copolymer. <i>Progress in Organic Coatings</i> , 2016, 101, 522-529.	3.9	28
95	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.	6.2	28
96	Molecular dynamics simulations of melting behavior of alkane as phase change materials slurry. <i>Energy Conversion and Management</i> , 2012, 64, 152-156.	9.2	27
97	Heat transfer enhancement mechanism of pool boiling with self-rewetting fluid. <i>International Journal of Heat and Mass Transfer</i> , 2014, 79, 309-313.	4.8	27
98	Multiple orientations research on heat transfer performances of Ultra-Thin Loop Heat Pipes with different evaporator structures. <i>International Journal of Heat and Mass Transfer</i> , 2016, 98, 415-425.	4.8	27
99	Distribution of gas-liquid two-phase slug flow in parallel micro-channels with different branch spacing. <i>International Journal of Heat and Mass Transfer</i> , 2019, 132, 606-617.	4.8	27
100	Numerical study on air-side performance of an integrated fin and micro-channel heat exchanger. <i>Applied Thermal Engineering</i> , 2010, 30, 2738-2745.	6.0	26
101	Dissipative particle dynamics investigation of microencapsulated thermal energy storage phase change materials. <i>Energy</i> , 2012, 44, 805-812.	8.8	26
102	Experimental investigation of two-phase slug flow distribution in horizontal multi-parallel micro-channels. <i>Chemical Engineering Science</i> , 2017, 158, 267-276.	3.8	25
103	Design, fabrication, investigation and analysis of a novel flat evaporator loop heat pipe for cooling high heat flux server chips. <i>Applied Thermal Engineering</i> , 2022, 201, 117775.	6.0	25
104	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
105	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.	3.7	24
106	Phase split of nitrogen/non-Newtonian fluid two-phase flow at a micro-T-junction. <i>International Journal of Multiphase Flow</i> , 2011, 37, 1129-1134.	3.4	23
107	Experiment research on the effect of the evaporator's configuration design of an innovative ultra-thin looped heat pipe. <i>International Journal of Heat and Mass Transfer</i> , 2016, 92, 497-506.	4.8	23
108	Integration highly concentrated photovoltaic module exhaust heat recovery system with adsorption air-conditioning module via phase change materials. <i>Energy</i> , 2017, 118, 1187-1197.	8.8	23

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109	Polymer-infiltrated approach to produce robust and easy repairable superhydrophobic mesh for high-efficiency oil/water separation. <i>Journal of Materials Science</i> , 2018, 53, 10554-10568.	3.7	23
110	Development of heat transfer enhancement of a novel composite phase change material with adjustable phase change temperature. <i>Solar Energy Materials and Solar Cells</i> , 2020, 210, 110457.	6.2	23
111	Experimental investigation of two-phase slug flow splitting at a micro impacting T-junction. <i>International Journal of Heat and Mass Transfer</i> , 2015, 81, 939-948.	4.8	22
112	Experimental investigation on thermal characteristics of a novel loop heat pipe for cooling high heat flux electronic chips. <i>International Journal of Heat and Mass Transfer</i> , 2022, 187, 122569.	4.8	22
113	The phase distribution of gas-liquid two-phase flow in microimpacting T-junctions with different branch channel diameters. <i>Chemical Engineering Journal</i> , 2018, 333, 34-42.	12.7	21
114	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.	7.8	20
115	Preparation and thermal performance of phase change material with high latent heat and thermal conductivity based on novel binary inorganic eutectic system. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111186.	6.2	20
116	Experimental Investigation on the Characters of Ultra-thin Loop Heat Pipe Applied in BTMS. <i>Energy Procedia</i> , 2015, 75, 3192-3200.	1.8	19
117	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
118	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.	3.7	19
119	Molecular dynamics simulations of phase transition of <i>n</i> -nonadecane under high pressure. <i>Phase Transitions</i> , 2012, 85, 400-408.	1.3	18
120	The effect of surface tension on phase distribution of two-phase flow in a micro-T-junction. <i>Chemical Engineering Science</i> , 2011, 66, 3962-3968.	3.8	17
121	Air-side thermal hydraulic performance of an integrated fin and micro-channel heat exchanger. <i>Energy Conversion and Management</i> , 2011, 52, 983-989.	9.2	17
122	Experimental investigation of Al-Cu composed tube-fin heat exchangers for air conditioner. <i>Experimental Thermal and Fluid Science</i> , 2013, 51, 264-270.	2.7	17
123	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.	3.0	17
124	Experimental investigation of annular two-phase flow splitting at a microimpacting T-junction. <i>Chemical Engineering Science</i> , 2014, 118, 154-163.	3.8	16
125	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.	4.5	16
126	Investigation on critical heat flux of flow boiling in parallel microchannels with large aspect ratio: Experimental and theoretical analysis. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 55-66.	4.8	15

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127	An investigation on optimal external cooling condition for an ultra-thin loop thermosyphon-based thermal management system. <i>Energy Conversion and Management</i> , 2018, 172, 328-342.	9.2	15
128	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.	4.4	15
129	Design of flow pattern in air-cooled battery thermal management system. <i>International Journal of Energy Research</i> , 2021, 45, 9541-9554.	4.5	15
130	Phase splitting of a slug-annular flow at a horizontal micro-T-junction. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 589-596.	4.8	14
131	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
132	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
133	Microwave hydrothermal synthesis and performance of NaA zeolite monolithic adsorbent with honeycomb ceramic matrix. <i>Microporous and Mesoporous Materials</i> , 2018, 259, 116-122.	4.4	13
134	Experimental study on microcapsule fluid oscillating heat pipe. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 1601-1606.	0.9	12
135	A superhydrophobic polyacrylate film with good durability fabricated via spray coating. <i>Journal of Materials Science</i> , 2018, 53, 15390-15400.	3.7	12
136	Thermal performance enhancement of vapor chamber with modified thin screen mesh wick by laser etching. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101525.	5.7	12
137	Experimental research of the critical geometric parameters on subcooled flow boiling in confined microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2018, 116, 73-83.	4.8	10
138	Pore network simulations of liquid water and oxygen transport in gas diffusion layers with spatially variable wettability. <i>Journal of Power Sources</i> , 2021, 506, 230207.	7.8	10
139	Heat Transport Characteristics in Closed Loop Oscillating Heat Pipes. , 2005, , 805.		9
140	Visualization research on confined bubble growth feature and heat transfer characteristic in ultra-shallow micro channel. <i>International Journal of Heat and Mass Transfer</i> , 2016, 103, 847-854.	4.8	9
141	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
142	In-situ microwave hydrothermal synthesis and performance of chromium-substituted aluminophosphate zeolite coating on aluminum foil. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109900.	4.4	8
143	Dropwise Condensation by Nanoengineered Surfaces: Design, Mechanism, and Enhancing Strategies. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101603.	3.7	8
144	Phase Change Composite with Core-Shell Structure for Photothermal Conversion and Thermal Energy Storage. <i>ACS Applied Energy Materials</i> , 2022, 5, 9109-9117.	5.1	8

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145	Study of Phase Splitting at a Micro-T-Junction. <i>Heat Transfer Engineering</i> , 2014, 35, 1114-1121.	1.9	7
146	Characterization and fluorine-free microwave hydrothermal synthesis of AlPO ₄ -5 molecular sieves as adsorbents. <i>Journal of Porous Materials</i> , 2017, 24, 315-325.	2.6	7
147	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.	3.7	7
148	Experimental investigation on the thermal characteristics of ultra-thin flattened heat pipes with bending angles. <i>Applied Thermal Engineering</i> , 2020, 172, 115150.	6.0	7
149	Experimental investigation on condensation heat transfer of R134a on single horizontal copper and stainless steel three-dimensional finned tubes. , 2013, , .		6
150	Experimental investigation on pressure drop characteristic of R410A through short tube orifices. <i>Applied Thermal Engineering</i> , 2016, 109, 672-677.	6.0	6
151	Iron doped aluminophosphate molecular sieve with improved adsorption capacity for water vapor. <i>Adsorption</i> , 2018, 24, 551-561.	3.0	6
152	Numerical study on turbulent mixed convection in a vertical plane channel using hybrid RANS/LES and LES models. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 1-8.	3.5	6
153	Numerical study on effects of the cofferdam area in liquefied natural gas storage tank on the leakage and diffusion characteristics of natural gas. <i>Chinese Journal of Chemical Engineering</i> , 2021, 29, 228-241.	3.5	6
154	Investigation on preparation, thermal, and mechanical properties of carbon fiber decorated with hexagonal boron nitride/silicone rubber composites for battery thermal management. <i>International Journal of Energy Research</i> , 2021, 45, 4396-4409.	4.5	6
155	A lattice Boltzmann model for interphase conjugate heat transfer. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2017, 72, 130-151.	0.9	4
156	Production of limited delayed detached eddy simulation of turbulent flow and heat transfer. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 2146-2156.	1.7	4
157	Improved desorption performance of NaA zeolite by rare earth (Re ³⁺ =La, Nd) ion exchange. <i>Heat and Mass Transfer</i> , 2019, 55, 3179-3187.	2.1	4
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160	Cycle performance of air conditioning system based on finned tube heat exchangers with different helix angles. <i>Applied Thermal Engineering</i> , 2015, 78, 543-550.	6.0	2
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