

# Zi-Xiang Tong

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8884401/publications.pdf>

Version: 2024-02-01

205  
papers

11,472  
citations

23879

60  
h-index

39744

98  
g-index

206  
all docs

206  
docs citations

206  
times ranked

6642  
citing authors

#	ARTICLE	IF	CITATIONS
1	Melting evaluation of a thermal energy storage unit with partially filled metal foam <sup>*</sup>. International Journal of Energy Research, 2022, 46, 195-211.	2.2	8
2	Stabilized finite element methods based on multiscale enrichment for Allen-Cahn and Cahn-Hilliard equations. Communications on Pure and Applied Analysis, 2022, 21, 1873.	0.4	1
3	COUPLING MOLECULAR DYNAMICS AND PSEUDOPOTENTIAL LATTICE BOLTZMANN METHOD WITH NONIDEAL EQUATION OF STATE FOR MICROSCOPIC FLUID FLOWS. Heat Transfer Research, 2022, 53, 33-53.	0.9	1
4	Optical-thermal-mechanical analysis of high-temperature receiver integrated with gradually sparse biomimetic heliostat field layouts for the next-generation solar power tower. Solar Energy, 2022, 232, 35-51.	2.9	8
5	A systematic review of supercritical carbon dioxide(S-CO <sub>2</sub> ) power cycle for energy industries: Technologies, key issues, and potential prospects. Energy Conversion and Management, 2022, 258, 115437.	4.4	82
6	Lattice Boltzmann Method for Conduction and Radiation Heat Transfer in Composite Materials. Journal of Thermal Science, 2022, 31, 777-789.	0.9	6
7	Temporary velocity correction-based immersed boundary lattice Boltzmann method for incompressible flows in porous media at representative elementary volume scale. Physics of Fluids, 2022, 34, 043110.	1.6	1
8	The study of heat-mass transfer characteristics and multi-objective optimization on electric arc furnace. Applied Energy, 2022, 317, 119147.	5.1	3
9	Analysis and optimization about electromagnetics-temperature-component distribution in calcium carbide electric furnace. Applied Thermal Engineering, 2021, 185, 115980.	3.0	8
10	Effects of partly-filled encapsulated phase change material on the performance enhancement of solar thermochemical reactor. Journal of Cleaner Production, 2021, 279, 123169.	4.6	15
11	Influence of feed architecture on heat and mass transfer in calcium carbide electric furnace. International Journal of Heat and Mass Transfer, 2021, 164, 120593.	2.5	6
12	Optimization of the packed-bed thermal energy storage with cascaded PCM capsules under the constraint of outlet threshold temperature. Applied Thermal Engineering, 2021, 186, 116473.	3.0	31
13	A Multiscale Method for Coupled Steady-State Heat Conduction and Radiative Transfer Equations in Composite Materials. Journal of Heat Transfer, 2021, , .	1.2	2
14	On-site experimental study on fouling and heat transfer characteristics of flue gas heat exchanger for waste heat recovery. Fuel, 2021, 296, 120532.	3.4	23
15	Study on the annual optical comprehensive performance of linear Fresnel reflector concentrators with an effective multi-objective optimization model. Solar Energy, 2021, 225, 591-607.	2.9	8
16	Conceptual design of porous volumetric solar receiver using molten salt as heat transfer fluid. Applied Energy, 2021, 301, 117400.	5.1	17
17	A multiscale-multiphysics integrated model to investigate the coupling effects of non-uniform illumination on concentrated photovoltaic system with nanostructured front surface. Applied Energy, 2020, 257, 113971.	5.1	10
18	Theoretical modeling and experimental validation for the effective thermal conductivity of moist silica aerogel. International Journal of Heat and Mass Transfer, 2020, 147, 118842.	2.5	29

#	ARTICLE	IF	CITATIONS
19	Numerical study on a novel parabolic trough solar receiver-reactor and a new control strategy for continuous and efficient hydrogen production. <i>Applied Energy</i> , 2020, 261, 114444.	5.1	22
20	Design and operating evaluation of a finned shell-and-tube thermal energy storage unit filled with metal foam. <i>Applied Energy</i> , 2020, 261, 114385.	5.1	128
21	Achievement of a novel porous non-noble-metal catalyst with excellent oxygen reduction reaction activity: Promoting the commercialization of alkaline fuel cells. <i>Journal of Cleaner Production</i> , 2020, 249, 119314.	4.6	17
22	Design of non-uniformly distributed annular fins for a shell-and-tube thermal energy storage unit. <i>Applied Energy</i> , 2020, 279, 115772.	5.1	188
23	A theoretical analysis of the hydrodynamic influence on the growth of microalgae in the photobioreactors with simple growth kinetics. <i>International Journal of Heat and Mass Transfer</i> , 2020, 158, 119986.	2.5	9
24	Filtration performance of the granular bed filter used for industrial flue gas purification: A review of simulation and experiment. <i>Separation and Purification Technology</i> , 2020, 251, 117318.	3.9	26
25	Molecular dynamics simulation of alkaline electrolyte diffusion in anion exchange membrane. <i>Science China Technological Sciences</i> , 2020, 63, 2241-2255.	2.0	2
26	Two-dimensional numerical model for predicting fouling shape growth based on immersed boundary method and lattice Boltzmann method. <i>Applied Thermal Engineering</i> , 2020, 179, 115755.	3.0	9
27	Role of pin fin-metal foam composite structure in improving solidification: Performance evaluation. <i>International Communications in Heat and Mass Transfer</i> , 2020, 117, 104775.	2.9	23
28	Structure optimization of granular bed filter for industrial flue gas filtration containing coagulative particles: An experimental and numerical study. <i>Advanced Powder Technology</i> , 2020, 31, 2244-2256.	2.0	17
29	Experimental and numerical analysis of the hydraulic and thermal performances of the gradually-varied porous volumetric solar receiver. <i>Science China Technological Sciences</i> , 2020, 63, 1224-1234.	2.0	17
30	Coupled optical and thermal performance of a fin-like molten salt receiver for the next-generation solar power tower. <i>Applied Energy</i> , 2020, 272, 115079.	5.1	50
31	Perspective of concentrating solar power. <i>Energy</i> , 2020, 198, 117373.	4.5	254
32	Experiment and optimization study on the radial graded porous volumetric solar receiver matching non-uniform solar flux distribution. <i>Applied Energy</i> , 2020, 275, 115343.	5.1	34
33	Fouling potential prediction and multi-objective optimization of a flue gas heat exchanger using neural networks and genetic algorithms. <i>International Journal of Heat and Mass Transfer</i> , 2020, 152, 119488.	2.5	43
34	Parameter study of filtration characteristics of granular filters for hot gas clean-up. <i>Powder Technology</i> , 2019, 353, 267-275.	2.1	16
35	Experimental and numerical studies of tungsten line growth in laser chemical vapor deposition. <i>International Journal of Heat and Mass Transfer</i> , 2019, 140, 564-578.	2.5	4
36	A study of new method and comprehensive evaluation on the improved performance of solar power tower plant with the CO <sub>2</sub> -based mixture cycles. <i>Applied Energy</i> , 2019, 256, 113837.	5.1	21

#	ARTICLE	IF	CITATIONS
37	A general and rapid method for performance evaluation of enhanced heat transfer techniques. <i>International Journal of Heat and Mass Transfer</i> , 2019, 145, 118780.	2.5	19
38	Effect of inclination on the thermal response of composite phase change materials for thermal energy storage. <i>Applied Energy</i> , 2019, 238, 22-33.	5.1	116
39	Sensitivity analysis of operation parameters on the system performance of organic rankine cycle system using orthogonal experiment. <i>Energy</i> , 2019, 172, 435-442.	4.5	56
40	Experimental studies of organic Rankine cycle systems using scroll expanders with different suction volumes. <i>Journal of Cleaner Production</i> , 2019, 218, 241-249.	4.6	36
41	Role of porous metal foam on the heat transfer enhancement for a thermal energy storage tube. <i>Applied Energy</i> , 2019, 239, 142-156.	5.1	186
42	Effect of pore size and porosity distribution on radiation absorption and thermal performance of porous solar energy absorber. <i>Science China Technological Sciences</i> , 2019, 62, 2213-2225.	2.0	17
43	Comprehensive study on novel parabolic trough solar receiver-reactors of gradually-varied porosity catalyst beds for hydrogen production. <i>Renewable Energy</i> , 2019, 143, 1766-1781.	4.3	23
44	Thermal response of annuli filled with metal foam for thermal energy storage: An experimental study. <i>Applied Energy</i> , 2019, 250, 1457-1467.	5.1	101
45	Multi-objective optimization of a dual-layer granular filter for hot gas clean-up by using genetic algorithm. <i>Applied Energy</i> , 2019, 248, 463-474.	5.1	17
46	Experimental study of the organic rankine cycle under different heat and cooling conditions. <i>Energy</i> , 2019, 180, 678-688.	4.5	23
47	Three-dimensional numerical study on a novel parabolic trough solar receiver-reactor of a locally-installed Kenics static mixer for efficient hydrogen production. <i>Applied Energy</i> , 2019, 250, 131-146.	5.1	26
48	A novel semi-empirical model on predicting the thermal conductivity of diathermic oil-based nanofluid for solar thermal application. <i>International Journal of Heat and Mass Transfer</i> , 2019, 138, 1002-1013.	2.5	13
49	A comprehensive study on parabolic trough solar receiver-reactors of methanol-steam reforming reaction for hydrogen production. <i>Energy Conversion and Management</i> , 2019, 186, 278-292.	4.4	48
50	The coupling effects of the different carrier generation rate distributions and recombination caused by nanostructures on the all-back-contact ultra-thin silicon solar cell performances. <i>Energy Conversion and Management</i> , 2019, 187, 537-545.	4.4	7
51	Parametric optimization of H-type finned tube with longitudinal vortex generators by response surface model and genetic algorithm. <i>Applied Energy</i> , 2019, 239, 908-918.	5.1	38
52	A review of current progress in multiscale simulations for fluid flow and heat transfer problems: The frameworks, coupling techniques and future perspectives. <i>International Journal of Heat and Mass Transfer</i> , 2019, 137, 1263-1289.	2.5	39
53	Experimental study on anode components optimization for direct glucose fuel cells. <i>Energy</i> , 2019, 176, 15-22.	4.5	28
54	Experimental study on the heat transfer performance of a molten-salt printed circuit heat exchanger with airfoil fins for concentrating solar power. <i>International Journal of Heat and Mass Transfer</i> , 2019, 135, 837-846.	2.5	66

#	ARTICLE	IF	CITATIONS
55	The investigation of thermo-economic performance and conceptual design for the miniaturized lead-cooled fast reactor composing supercritical CO <sub>2</sub> power cycle. <i>Energy</i> , 2019, 173, 174-195.	4.5	66
56	A numerical model coupling bubble flow, light transfer, cell motion and growth kinetics for real timescale microalgae cultivation and its applications in flat plate photobioreactors. <i>Algal Research</i> , 2019, 44, 101727.	2.4	13
57	Transient response of waste heat recovery system for hydrogen production and other renewable energy utilization. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 15985-15996.	3.8	11
58	Tomography-based determination of Nusselt number correlation for the porous volumetric solar receiver with different geometrical parameters. <i>Renewable Energy</i> , 2019, 135, 711-718.	4.3	37
59	Multi-physics coupling effects of nanostructure characteristics on the all-back-contact silicon solar cell performances. <i>Applied Energy</i> , 2019, 236, 127-136.	5.1	8
60	Review of the solar flux distribution in concentrated solar power: Non-uniform features, challenges, and solutions. <i>Applied Thermal Engineering</i> , 2019, 149, 448-474.	3.0	211
61	Real-time particle filtration of granular filters for hot gas clean-up. <i>Fuel</i> , 2019, 237, 308-319.	3.4	26
62	Heat transfer and fouling performance of finned tube heat exchangers: Experimentation via on line monitoring. <i>Fuel</i> , 2019, 236, 949-959.	3.4	45
63	Lattice Boltzmann methods for single-phase and solid-liquid phase-change heat transfer in porous media: A review. <i>International Journal of Heat and Mass Transfer</i> , 2019, 129, 160-197.	2.5	165
64	Study on heat transfer and stress characteristics of the pressurized volumetric receiver in solar power tower system. <i>Applied Thermal Engineering</i> , 2018, 133, 341-350.	3.0	23
65	General performance evaluation charts and effectiveness correlations for the design of thermocline heat storage system. <i>Chemical Engineering Science</i> , 2018, 185, 105-115.	1.9	9
66	Experimental study and optimization on filtration and fluid flow performance of a granular bed filter. <i>Powder Technology</i> , 2018, 333, 449-457.	2.1	29
67	The effect of the full-spectrum characteristics of nanostructure on the PV-TE hybrid system performances within multi-physics coupling process. <i>Applied Energy</i> , 2018, 213, 169-178.	5.1	31
68	Multi-physics analysis: The coupling effects of nanostructures on the low concentrated black silicon photovoltaic system performances. <i>Energy Conversion and Management</i> , 2018, 159, 129-139.	4.4	15
69	Optimization method for the porous volumetric solar receiver coupling genetic algorithm and heat transfer analysis. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 383-390.	2.5	46
70	Optimizing thermal conductivity distribution for heat conduction problems with different optimization objectives. <i>International Journal of Heat and Mass Transfer</i> , 2018, 119, 343-354.	2.5	10
71	Numerical investigation of SVOC mass transport in a tube by an axisymmetric lattice Boltzmann method. <i>Building and Environment</i> , 2018, 128, 180-189.	3.0	4
72	A review of mass-transfer models and mechanistic studies of semi-volatile organic compounds in indoor environments. <i>Indoor and Built Environment</i> , 2018, 27, 1307-1321.	1.5	22

#	ARTICLE	IF	CITATIONS
73	Effects of nozzle arrangement on uniformity of multiple impinging jets heat transfer in a fast cooling simulation device. <i>Computers and Fluids</i> , 2018, 164, 83-93.	1.3	14
74	Parametric study on fouling mechanism and heat transfer characteristics of tube bundle heat exchangers for reducing fouling considering the deposition and removal mechanisms. <i>Fuel</i> , 2018, 211, 301-311.	3.4	55
75	A detailed study on phonon transport in thin silicon membranes with phononic crystal nanostructures. <i>Applied Energy</i> , 2018, 227, 731-741.	5.1	7
76	Parameter study and optimization on filtration and resistance characteristics of granular bed filter. <i>Advanced Powder Technology</i> , 2018, 29, 3250-3256.	2.0	11
77	Thermodynamic and kinetic analysis of an integrated solar thermochemical energy storage system for dry-reforming of methane. <i>Energy</i> , 2018, 164, 937-950.	4.5	22
78	A review of phase change material and performance enhancement method for latent heat storage system. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 93, 245-259.	8.2	431
79	Novel optical efficiency formulas for parabolic trough solar collectors: Computing method and applications. <i>Applied Energy</i> , 2018, 224, 682-697.	5.1	20
80	Coarse-grained area-difference-elasticity membrane model coupled with IB-EB method for simulation of red blood cell morphology. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 509, 1183-1194.	1.2	3
81	Investigation on heat transfer characteristics of molten salt in a shell-and-tube heat exchanger. <i>International Communications in Heat and Mass Transfer</i> , 2018, 96, 61-68.	2.9	23
82	Particle filtration characteristics of typical packing granular filters used in hot gas clean-up. <i>Fuel</i> , 2018, 234, 9-19.	3.4	28
83	A novel optical optimization model for linear Fresnel reflector concentrators. <i>Renewable Energy</i> , 2018, 129, 486-499.	4.3	32
84	EXPERIMENTAL STUDY OF ORGANIC RANKINE CYCLE SYSTEM USING SCROLL EXPANDER AND DIAPHRAGM PUMP AT DIFFERENT CONDENSING TEMPERATURES. <i>Heat Transfer Research</i> , 2018, 49, 899-914.	0.9	6
85	Modeling a hybrid methodology for evaluating and forecasting regional energy efficiency in China. <i>Applied Energy</i> , 2017, 185, 1769-1777.	5.1	60
86	Thermal analysis of solar central receiver tube with porous inserts and non-uniform heat flux. <i>Applied Energy</i> , 2017, 185, 1152-1161.	5.1	62
87	Simulation of real time particle deposition and removal processes on tubes by coupled numerical method. <i>Applied Energy</i> , 2017, 185, 2181-2193.	5.1	57
88	Thermodynamic analysis and optimization of a molten salt solar power tower integrated with a recompression supercritical CO <sub>2</sub> Brayton cycle based on integrated modeling. <i>Energy Conversion and Management</i> , 2017, 135, 336-350.	4.4	267
89	Evaluation and optimization of melting performance for a latent heat thermal energy storage unit partially filled with porous media. <i>Applied Energy</i> , 2017, 193, 84-95.	5.1	257
90	Investigation on the thermal performance of a high-temperature latent heat storage system. <i>Applied Thermal Engineering</i> , 2017, 122, 579-592.	3.0	76

#	ARTICLE	IF	CITATIONS
91	Operation characteristic and performance comparison of organic Rankine cycle (ORC) for low-grade waste heat using R245fa, R123 and their mixtures. <i>Energy Conversion and Management</i> , 2017, 144, 153-163.	4.4	83
92	Parameter study on the fouling characteristics of the H-type finned tube heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2017, 112, 367-378.	2.5	62
93	Economical evaluation and optimization of organic Rankine cycle with mixture working fluids using R245fa as flame retardant. <i>Applied Thermal Engineering</i> , 2017, 113, 1056-1070.	3.0	65
94	Lattice Boltzmann models for axisymmetric solid-liquid phase change. <i>International Journal of Heat and Mass Transfer</i> , 2017, 112, 795-804.	2.5	48
95	Fouling characteristics analysis and morphology prediction of heat exchangers with a particulate fouling model considering deposition and removal mechanisms. <i>Fuel</i> , 2017, 203, 725-738.	3.4	68
96	Multi-scale investigation on the absorbed irradiance distribution of the nanostructured front surface of the concentrated PV-TE device by a MC-FDTD coupled method. <i>Applied Energy</i> , 2017, 207, 18-26.	5.1	30
97	Cations Diffusion in Nafion117 Membrane of Microbial fuel cells. <i>Electrochimica Acta</i> , 2017, 245, 654-663.	2.6	28
98	Optical and radiative properties analysis and optimization study of the gradually-varied volumetric solar receiver. <i>Applied Energy</i> , 2017, 207, 27-35.	5.1	50
99	Innentitelbild: A Sodium-Ion-Conducting Direct Formate Fuel Cell: Generating Electricity and Producing Base ( <i>Angew. Chem.</i> 21/2017). <i>Angewandte Chemie</i> , 2017, 129, 5726-5726.	1.6	1
100	Convective heat transfer of molten salt in the shell-and-tube heat exchanger with segmental baffles. <i>International Journal of Heat and Mass Transfer</i> , 2017, 113, 456-465.	2.5	44
101	A Sodium-Ion-Conducting Direct Formate Fuel Cell: Generating Electricity and Producing Base. <i>Angewandte Chemie</i> , 2017, 129, 5828-5831.	1.6	28
102	A Sodium-Ion-Conducting Direct Formate Fuel Cell: Generating Electricity and Producing Base. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5734-5737.	7.2	77
103	Integration between supercritical CO <sub>2</sub> Brayton cycles and molten salt solar power towers: A review and a comprehensive comparison of different cycle layouts. <i>Applied Energy</i> , 2017, 195, 819-836.	5.1	252
104	Analysis and numerical tests of lifting relations to reconstruct LBM distribution functions for coupling simulations. <i>International Journal of Heat and Mass Transfer</i> , 2017, 107, 945-955.	2.5	7
105	Three-dimensional lattice Boltzmann models for solid-liquid phase change. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 1334-1347.	2.5	45
106	Pore-scale numerical simulation of fully coupled heat transfer process in porous volumetric solar receiver. <i>Energy</i> , 2017, 140, 1267-1275.	4.5	82
107	Thermodynamic analysis and comparison for different direct-heated supercritical CO <sub>2</sub> Brayton cycles integrated into a solar thermal power tower system. <i>Energy</i> , 2017, 140, 144-157.	4.5	95
108	Numerical Study on the Optical and Radiative Properties of the Gradually-varied Volumetric Solar Receiver. <i>Energy Procedia</i> , 2017, 105, 467-472.	1.8	2

#	ARTICLE	IF	CITATIONS
109	Direct coupling between molecular dynamics and lattice Boltzmann method based on velocity distribution functions for steady-state isothermal flow. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 544-555.	2.5	5
110	Enthalpy-based multiple-relaxation-time lattice Boltzmann method for solid-liquid phase-change heat transfer in metal foams. <i>Physical Review E</i> , 2017, 96, 023303.	0.8	24
111	Multi-objective optimization of the aiming strategy for the solar power tower with a cavity receiver by using the non-dominated sorting genetic algorithm. <i>Applied Energy</i> , 2017, 205, 399-416.	5.1	78
112	Numerical Study of the Solid Particle Erosion on H-Type Finned Circular/Elliptic Tube Surface. <i>Communications in Computational Physics</i> , 2017, 21, 466-489.	0.7	9
113	A comprehensive model for analysis of real-time optical performance of a solar power tower with a multi-tube cavity receiver. <i>Applied Energy</i> , 2017, 185, 589-603.	5.1	110
114	Lattice Boltzmann simulations of convection heat transfer in porous media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 465, 742-753.	1.2	47
115	Real-time fouling characteristics of a typical heat exchanger used in the waste heat recovery systems. <i>International Journal of Heat and Mass Transfer</i> , 2017, 104, 774-786.	2.5	84
116	Thermal performance analysis of a parabolic trough solar collector using supercritical CO <sub>2</sub> as heat transfer fluid under non-uniform solar flux. <i>Applied Thermal Engineering</i> , 2017, 115, 1255-1265.	3.0	182
117	Investigation of the effect of metal foam characteristics on the PCM melting performance in a latent heat thermal energy storage unit by pore-scale lattice Boltzmann modeling. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 72, 745-764.	1.2	64
118	Multi-objective optimization of the solar absorptivity distribution inside a cavity solar receiver for solar power towers. <i>Solar Energy</i> , 2017, 158, 247-258.	2.9	36
119	Numerical study of fouling characteristics on two kinds of typical heat exchangers used in the waste heat recovery systems. <i>Chinese Science Bulletin</i> , 2017, 62, 1292-1301.	0.4	3
120	A two-dimensional, two-phase mass transport model for microbial fuel cells. <i>Electrochimica Acta</i> , 2016, 212, 201-211.	2.6	27
121	A comprehensive model for optical and thermal characterization of a linear Fresnel solar reflector with a trapezoidal cavity receiver. <i>Renewable Energy</i> , 2016, 97, 129-144.	4.3	105
122	CFD analysis of SVOC mass transfer in different chambers. <i>International Journal of Heat and Mass Transfer</i> , 2016, 99, 613-621.	2.5	14
123	Non-orthogonal multiple-relaxation-time lattice Boltzmann method for incompressible thermal flows. <i>International Journal of Heat and Mass Transfer</i> , 2016, 102, 1334-1344.	2.5	45
124	Thermal analysis of a solar parabolic trough receiver tube with porous insert optimized by coupling genetic algorithm and CFD. <i>Science China Technological Sciences</i> , 2016, 59, 1475-1485.	2.0	71
125	Analysis of insulation performance of multilayer thermal insulation doped with phase change material. <i>International Journal of Heat and Mass Transfer</i> , 2016, 102, 934-943.	2.5	20
126	Heat transfer characteristics of silica aerogel composite materials: Structure reconstruction and numerical modeling. <i>International Journal of Heat and Mass Transfer</i> , 2016, 95, 621-635.	2.5	48



#	ARTICLE	IF	CITATIONS
127	Cyclic behaviors of the molten-salt packed-bed thermal storage system filled with cascaded phase change material capsules. <i>Applied Thermal Engineering</i> , 2016, 93, 1061-1073.	3.0	106
128	Parametric study and optimization of H-type finned tube heat exchangers using Taguchi method. <i>Applied Thermal Engineering</i> , 2016, 103, 128-138.	3.0	83
129	Analysis of thermal stress and fatigue fracture for the solar tower molten salt receiver. <i>Applied Thermal Engineering</i> , 2016, 99, 741-750.	3.0	99
130	A novel integrated simulation approach couples MCRT and Gebhart methods to simulate solar radiation transfer in a solar power tower system with a cavity receiver. <i>Renewable Energy</i> , 2016, 89, 93-107.	4.3	74
131	Gas-side fouling, erosion and corrosion of heat exchanger for middle and low temperature flue gas waste heat recovery. <i>Chinese Science Bulletin</i> , 2016, 61, 1858-1876.	0.4	16
132	Coupled LBM-FVM-CA simulation of particle deposition and removal processes on tubes. <i>Chinese Science Bulletin</i> , 2016, 61, 1912-1921.	0.4	0
133	Numerical Solutions of Nano/Microphenomena Coupled With Macroscopic Process of Heat Transfer and Fluid Flow: A Brief Review. <i>Journal of Heat Transfer</i> , 2015, 137, .	1.2	13
134	An inverse analysis to estimate the endothermic reaction parameters and physical properties of aerogel insulating material. <i>Applied Thermal Engineering</i> , 2015, 87, 214-224.	3.0	33
135	Numerical Simulation of the Particle Deposition on a Tube with Coupled Lattice Boltzmann Method and Finite Volume Method. <i>Energy Procedia</i> , 2015, 75, 3207-3212.	1.8	3
136	Advances of thermal conductivity models of nanoscale silica aerogel insulation material. <i>Applied Thermal Engineering</i> , 2015, 81, 28-50.	3.0	278
137	Multiple-relaxation-time lattice Boltzmann modeling of incompressible flows in porous media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 429, 215-230.	1.2	13
138	Study on the effect of punched holes on flow structure and heat transfer of the plain fin with multi-row delta winglets. <i>Heat and Mass Transfer</i> , 2015, 51, 1523-1536.	1.2	13
139	Effect of crystal orientation on microstructure and properties of bulk Fe <sub>2</sub> B intermetallic. <i>Journal of Materials Research</i> , 2015, 30, 257-265.	1.2	18
140	Study on optical and thermal performance of a linear Fresnel solar reflector using molten salt as HTF with MCRT and FVM methods. <i>Applied Energy</i> , 2015, 146, 162-173.	5.1	152
141	Double multiple-relaxation-time lattice Boltzmann model for solid-liquid phase change with natural convection in porous media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 438, 94-106.	1.2	66
142	Predicting the transport process of indoor semi-volatile organic compounds via lattice Boltzmann method. <i>Building and Environment</i> , 2015, 94, 82-96.	3.0	8
143	A graphical criterion for working fluid selection and thermodynamic system comparison in waste heat recovery. <i>Applied Thermal Engineering</i> , 2015, 89, 772-782.	3.0	50
144	Molecular Dynamics-Continuum Hybrid Simulation for the Impingement of Droplet on a Liquid Film. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 68, 512-525.	1.2	9

#	ARTICLE	IF	CITATIONS
145	Optimization of porous insert configurations for heat transfer enhancement in tubes based on genetic algorithm and CFD. <i>International Journal of Heat and Mass Transfer</i> , 2015, 87, 376-379.	2.5	59
146	Effect of erosion speed on the interaction between erosion and corrosion of the Fe-3.5 wt% B alloy in a flowing zinc bath. <i>Journal of Materials Research</i> , 2015, 30, 852-859.	1.2	5
147	Effects of Erosion Angle on Erosion Properties of Fe-B Alloy in Flowing Liquid Zinc. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 1900-1907.	1.1	19
148	Coupling finite volume and lattice Boltzmann methods for pore scale investigation on volatile organic compounds emission process. <i>Building and Environment</i> , 2015, 92, 236-245.	3.0	20
149	Geometric optimization on optical performance of parabolic trough solar collector systems using particle swarm optimization algorithm. <i>Applied Energy</i> , 2015, 148, 282-293.	5.1	106
150	Numerical optimization of catalyst configurations in a solar parabolic trough receiver reactor with non-uniform heat flux. <i>Solar Energy</i> , 2015, 122, 113-125.	2.9	50
151	A unified coupling scheme between lattice Boltzmann method and finite volume method for unsteady fluid flow and heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2015, 80, 812-824.	2.5	31
152	Sulfuric acid deposition characteristics of H-type finned tube bank with 10 rows. <i>International Journal of Heat and Mass Transfer</i> , 2015, 81, 137-141.	2.5	26
153	A detailed nonuniform thermal model of a parabolic trough solar receiver with two halves and two inactive ends. <i>Renewable Energy</i> , 2015, 74, 139-147.	4.3	59
154	Convective Heat Transfer Enhancement: Mechanisms, Techniques, and Performance Evaluation. <i>Advances in Heat Transfer</i> , 2014, 46, 87-186.	0.4	41
155	Modeling of the Dish Receiver With the Effect of Inhomogeneous Radiation Flux Distribution. <i>Heat Transfer Engineering</i> , 2014, 35, 780-790.	1.2	16
156	Numerical Simulation of Heat and Mass Transfer during Nanosecond Laser Chemical Vapor Deposition on a Particle Surface. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 65, 662-678.	1.2	1
157	A design method and numerical study for a new type parabolic trough solar collector with uniform solar flux distribution. <i>Science China Technological Sciences</i> , 2014, 57, 531-540.	2.0	111
158	A multiple-relaxation-time lattice Boltzmann model for convection heat transfer in porous media. <i>International Journal of Heat and Mass Transfer</i> , 2014, 73, 761-775.	2.5	107
159	A parameter study of tube bundle heat exchangers for fouling rate reduction. <i>International Journal of Heat and Mass Transfer</i> , 2014, 72, 210-221.	2.5	112
160	A critical review of the pseudopotential multiphase lattice Boltzmann model: Methods and applications. <i>International Journal of Heat and Mass Transfer</i> , 2014, 76, 210-236.	2.5	574
161	Dynamic thermal performance analysis of a molten-salt packed-bed thermal energy storage system using PCM capsules. <i>Applied Energy</i> , 2014, 121, 184-195.	5.1	155
162	Transient heat transfer characteristic of silica aerogel insulating material considering its endothermic reaction. <i>International Journal of Heat and Mass Transfer</i> , 2014, 68, 633-640.	2.5	18

#	ARTICLE	IF	CITATIONS
163	A detailed parameter study on the comprehensive characteristics and performance of a parabolic trough solar collector system. <i>Applied Thermal Engineering</i> , 2014, 63, 278-289.	3.0	79
164	Layer reduction method for fabricating Pd-coated Ni foams as high-performance ethanol electrode for anion-exchange membrane fuel cells. <i>RSC Advances</i> , 2014, 4, 16879.	1.7	53
165	A multi-component lattice Boltzmann method in consistent with Stefan's Maxwell equations: Derivation, validation and application in porous medium. <i>Computers and Fluids</i> , 2014, 105, 155-165.	1.3	21
166	An entransy dissipation-based optimization principle for solar power tower plants. <i>Science China Technological Sciences</i> , 2014, 57, 773-783.	2.0	26
167	The impact of concrete structure on the thermal performance of the dual-media thermocline thermal storage tank using concrete as the solid medium. <i>Applied Energy</i> , 2014, 113, 1363-1371.	5.1	72
168	Multi-scale modeling of proton exchange membrane fuel cell by coupling finite volume method and lattice Boltzmann method. <i>International Journal of Heat and Mass Transfer</i> , 2013, 63, 268-283.	2.5	101
169	Effects of solid particle properties on the thermal performance of a packed-bed molten-salt thermocline thermal storage system. <i>Applied Thermal Engineering</i> , 2013, 57, 69-80.	3.0	103
170	A new model of selective photothermolysis to aid laser treatment of port wine stains. <i>Science Bulletin</i> , 2013, 58, 416-426.	1.7	12
171	Study on combined heat loss of a dish receiver with quartz glass cover. <i>Applied Energy</i> , 2013, 112, 690-696.	5.1	71
172	Numerical simulation of solar radiation transmission process for the solar tower power plant: From the heliostat field to the pressurized volumetric receiver. <i>Applied Thermal Engineering</i> , 2013, 61, 583-595.	3.0	59
173	Coupled numerical approach combining finite volume and lattice Boltzmann methods for multi-scale multi-physicochemical processes. <i>Journal of Computational Physics</i> , 2013, 255, 83-105.	1.9	64
174	Theoretical study on thermal conductivities of silica aerogel composite insulating material. <i>International Journal of Heat and Mass Transfer</i> , 2013, 58, 540-552.	2.5	186
175	Parametric optimization of regenerative organic Rankine cycle (ORC) for low grade waste heat recovery using genetic algorithm. <i>Energy</i> , 2013, 58, 473-482.	4.5	161
176	A numerical study on compact enhanced fin-and-tube heat exchangers with oval and circular tube configurations. <i>International Journal of Heat and Mass Transfer</i> , 2013, 65, 686-695.	2.5	88
177	Parametric study and field synergy principle analysis of H-type finned tube bank with 10 rows. <i>International Journal of Heat and Mass Transfer</i> , 2013, 60, 241-251.	2.5	68
178	Multiscale Simulations of Heat Transfer and Fluid Flow Problems. <i>Journal of Heat Transfer</i> , 2012, 134, .	1.2	61
179	Advances and Outlooks of Heat Transfer Enhancement by Longitudinal Vortex Generators. <i>Advances in Heat Transfer</i> , 2012, , 119-185.	0.4	44
180	Mixture Working Gases in Thermoacoustic Engines for Different Applications. <i>International Journal of Thermophysics</i> , 2012, 33, 1143-1163.	1.0	16

#	ARTICLE	IF	CITATIONS
181	Pore-scale simulation of coupled multiple physicochemical thermal processes in micro reactor for hydrogen production using lattice Boltzmann method. International Journal of Hydrogen Energy, 2012, 37, 13943-13957.	3.8	68
182	Coupling between finite volume method and lattice Boltzmann method and its application to fluid flow and mass transport in proton exchange membrane fuel cell. International Journal of Heat and Mass Transfer, 2012, 55, 3834-3848.	2.5	63
183	Sensitivity analysis of the numerical study on the thermal performance of a packed-bed molten salt thermozone thermal storage system. Applied Energy, 2012, 92, 65-75.	5.1	212
184	A lifting relation from macroscopic variables to mesoscopic variables in lattice Boltzmann method: Derivation, numerical assessments and coupling computations validation. Computers and Fluids, 2012, 54, 92-104.	1.3	23
185	Exergy analysis of two phase change materials storage system for solar thermal power with finite-time thermodynamics. Renewable Energy, 2012, 39, 447-454.	4.3	79
186	Parametric study and standby behavior of a packed-bed molten salt thermozone thermal storage system. Renewable Energy, 2012, 48, 1-9.	4.3	78
187	Roughness effect on flow and thermal boundaries in microchannel/nanochannel flow using molecular dynamics-continuum hybrid simulation. International Journal for Numerical Methods in Engineering, 2012, 89, 2-19.	1.5	37
188	An iterative method for the shape reconstruction of the inverse Euler problem. Numerical Methods for Partial Differential Equations, 2012, 28, 587-596.	2.0	1
189	Evaluation of the coupling scheme of FVM and LBM for fluid flows around complex geometries. International Journal of Heat and Mass Transfer, 2011, 54, 1975-1985.	2.5	51
190	A new performance evaluation method and its application in fin-tube surface design of small diameter tube. Frontiers in Energy, 2011, 5, 59-68.	1.2	6
191	A MCRT and FVM coupled simulation method for energy conversion process in parabolic trough solar collector. Renewable Energy, 2011, 36, 976-985.	4.3	362
192	Shape reconstruction of an inverse boundary value problem of two-dimensional Navier-Stokes equations. International Journal for Numerical Methods in Fluids, 2010, 62, 632-646.	0.9	4
193	Shape inverse problem for the two-dimensional unsteady Stokes flow. Numerical Methods for Partial Differential Equations, 2010, 26, 690-701.	2.0	0
194	Scale effect on flow and thermal boundaries in micro/nano-channel flow using molecular dynamics-continuum hybrid simulation method. International Journal for Numerical Methods in Engineering, 2010, 81, 207-228.	1.5	49
195	Hydrodynamics and heat transfer characteristics of a novel heat exchanger with delta-winglet vortex generators. Chemical Engineering Science, 2010, 65, 1551-1562.	1.9	97
196	Simulation of a standing-wave thermoacoustic engine using compressible SIMPLE algorithm. , 2010, , .		2
197	Numerical Study of Flow and Heat Transfer Enhancement by Using Delta Winglets in a Triangular Wavy Fin-and-Tube Heat Exchanger. Journal of Heat Transfer, 2009, 131, .	1.2	23
198	Implicit-explicit finite-difference lattice Boltzmann method with viscous compressible model for gas oscillating patterns in a resonator. International Journal for Numerical Methods in Fluids, 2009, 59, 853-872.	0.9	19

#	ARTICLE	IF	CITATIONS
199	Molecular dynamics-continuum hybrid simulation for condensation of gas flow in a microchannel. <i>Microfluidics and Nanofluidics</i> , 2009, 7, 407-422.	1.0	28
200	A comparative study on the air-side performance of wavy fin-and-tube heat exchanger with punched delta winglets in staggered and in-line arrangements. <i>International Journal of Thermal Sciences</i> , 2009, 48, 1765-1776.	2.6	154
201	Extension of the pressure correction method to zero-Mach number compressible flows. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 1583-1595.	0.9	1
202	Implementation of an efficient segregated algorithm-IDEAL on 3D collocated grid system. <i>Science Bulletin</i> , 2009, 54, 929-942.	4.3	14
203	Lattice Boltzmann method and its applications in engineering thermophysics. <i>Science Bulletin</i> , 2009, 54, 4117-4134.	1.7	28
204	Three-dimensional numerical simulation of the basic pulse tube refrigerator. <i>Frontiers of Energy and Power Engineering in China</i> , 2008, 2, 48-53.	0.4	1
205	Study on forced air convection cooling for electronic assemblies. <i>Frontiers of Energy and Power Engineering in China</i> , 2008, 2, 158-163.	0.4	2