

Qiuwang Wang

List of Publications by Year in descending order

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462
papers

11,295
citations

30047

54
h-index

62565

80
g-index

474
all docs

474
docs citations

474
times ranked

5394
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified analysis on enhancing single phase convective heat transfer with field synergy principle. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 4871-4879.	2.5	270
2	Optimization of compact heat exchangers by a genetic algorithm. <i>Applied Thermal Engineering</i> , 2008, 28, 895-906.	3.0	209
3	Computational study of forced convective heat transfer in structured packed beds with spherical or ellipsoidal particles. <i>Chemical Engineering Science</i> , 2010, 65, 726-738.	1.9	168
4	Optimization of fin arrangement and channel configuration in an airfoil fin PCHE for supercritical CO ₂ cycle. <i>Applied Thermal Engineering</i> , 2014, 70, 867-875.	3.0	155
5	Heat transfer analysis for shell-and-tube heat exchangers with experimental data by artificial neural networks approach. <i>Applied Thermal Engineering</i> , 2007, 27, 1096-1104.	3.0	150
6	Optimization of heat exchangers with vortex-generator fin by Taguchi method. <i>Applied Thermal Engineering</i> , 2010, 30, 1775-1783.	3.0	143
7	Study on local thermal-hydraulic performance and optimization of zigzag-type printed circuit heat exchanger at high temperature. <i>Energy Conversion and Management</i> , 2015, 104, 55-66.	4.4	142
8	An investigation of the thermo-hydraulic performance of the smooth wavy fin-and-elliptical tube heat exchangers utilizing new type vortex generators. <i>Applied Energy</i> , 2016, 162, 1282-1302.	5.1	142
9	Experimental and numerical investigation on air-side performance of fin-and-tube heat exchangers with various fin patterns. <i>Experimental Thermal and Fluid Science</i> , 2009, 33, 818-827.	1.5	141
10	Organic phase change materials confined in carbon-based materials for thermal properties enhancement: Recent advancement and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 108, 398-422.	8.2	141
11	Experimental investigation on SCO ₂ -water heat transfer characteristics in a printed circuit heat exchanger with straight channels. <i>International Journal of Heat and Mass Transfer</i> , 2017, 113, 184-194.	2.5	140
12	Development of a plate-pin fin heat sink and its performance comparisons with a plate fin heat sink. <i>Applied Thermal Engineering</i> , 2005, 25, 173-182.	3.0	138
13	Parametric study and multiple correlations on air-side heat transfer and friction characteristics of fin-and-tube heat exchangers with large number of large-diameter tube rows. <i>Applied Thermal Engineering</i> , 2009, 29, 1-16.	3.0	137
14	Experimental analysis of forced convective heat transfer in novel structured packed beds of particles. <i>Chemical Engineering Science</i> , 2012, 71, 126-137.	1.9	132
15	An Experimental Study of Shell-and-Tube Heat Exchangers With Continuous Helical Baffles. <i>Journal of Heat Transfer</i> , 2007, 129, 1425-1431.	1.2	122
16	Recent development and application of several high-efficiency surface heat exchangers for energy conversion and utilization. <i>Applied Energy</i> , 2014, 135, 748-777.	5.1	114
17	Numerical investigation on combined multiple shell-pass shell-and-tube heat exchanger with continuous helical baffles. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 1214-1222.	2.5	113
18	Numerical comparison between single PCM and multi-stage PCM based high temperature thermal energy storage for CSP tower plants. <i>Applied Thermal Engineering</i> , 2018, 139, 609-622.	3.0	113

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19	3D numerical investigation of flow and heat transfer characteristics in smooth wavy fin-and-elliptical tube heat exchangers using new type vortex generators. <i>Energy</i> , 2014, 73, 233-257.	4.5	105
20	On contact point modifications for forced convective heat transfer analysis in a structured packed bed of spheres. <i>Nuclear Engineering and Design</i> , 2014, 270, 21-33.	0.8	102
21	New insights into the effects of methane and oxygen on heat/mass transfer in reactive porous media. <i>International Communications in Heat and Mass Transfer</i> , 2021, 129, 105652.	2.9	102
22	Personal thermal management using portable thermoelectrics for potential building energy saving. <i>Applied Energy</i> , 2018, 218, 282-291.	5.1	100
23	Experimental study on the performance of a vanadium redox flow battery with non-uniformly compressed carbon felt electrode. <i>Applied Energy</i> , 2018, 213, 293-305.	5.1	99
24	Review of Improvements on Shell-and-Tube Heat Exchangers With Helical Baffles. <i>Heat Transfer Engineering</i> , 2010, 31, 836-853.	1.2	95
25	Numerical study on gravity-driven granular flow around tube out-wall: Effect of tube inclination on the heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2021, 174, 121296.	2.5	89
26	Recent trends on nanofluid heat transfer machine learning research applied to renewable energy. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110494.	8.2	87
27	Numerical study on vanadium redox flow battery performance with non-uniformly compressed electrode and serpentine flow field. <i>Applied Energy</i> , 2018, 220, 106-116.	5.1	86
28	Experimental investigation on thermoelectric generator with non-uniform hot-side heat exchanger for waste heat recovery. <i>Energy Conversion and Management</i> , 2017, 150, 403-414.	4.4	85
29	Numerical study on thermoelectricâ€“hydraulic performance of a thermoelectric power generator with a plate-fin heat exchanger with longitudinal vortex generators. <i>Applied Energy</i> , 2017, 185, 1343-1354.	5.1	84
30	Study on hydraulic and thermal performance of printed circuit heat transfer surface with distributed airfoil fins. <i>Applied Thermal Engineering</i> , 2017, 114, 1309-1318.	3.0	82
31	An experimental study on heat transfer between supercritical carbon dioxide and water near the pseudo-critical temperature in a double pipe heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2016, 93, 379-387.	2.5	79
32	Comparison of performances of displacement and mixing ventilations. Part II: indoor air quality. <i>International Journal of Refrigeration</i> , 2005, 28, 288-305.	1.8	78
33	Thermal and economic evaluation of thermocline combined sensible-latent heat thermal energy storage system for medium temperature applications. <i>Energy Conversion and Management</i> , 2019, 189, 14-23.	4.4	78
34	Heat transfer enhancement, intensification and optimisation in heat exchanger network retrofit and operation. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 120, 109644.	8.2	78
35	Comparison of gaseous contaminant diffusion under stratum ventilation and under displacement ventilation. <i>Building and Environment</i> , 2010, 45, 2035-2046.	3.0	73
36	Experimental study of developing turbulent flow and heat transfer in ribbed convergent/divergent square ducts. <i>International Journal of Heat and Fluid Flow</i> , 2001, 22, 603-613.	1.1	72

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37	Experimental investigation of thermal and ventilation performances of stratum ventilation. <i>Building and Environment</i> , 2011, 46, 1309-1320.	3.0	70
38	Pore-scale investigation of gravity effects on phase change heat transfer characteristics using lattice Boltzmann method. <i>Applied Energy</i> , 2018, 222, 92-103.	5.1	70
39	Numerical simulation of the mixing behaviour of hot and cold fluids in the rectangular T-junction with/without an impeller. <i>Applied Thermal Engineering</i> , 2022, 204, 117942.	3.0	70
40	Experimental study of heat transfer enhancement in narrow rectangular channel with longitudinal vortex generators. <i>Nuclear Engineering and Design</i> , 2007, 237, 686-693.	0.8	69
41	Performance predictions of laminar and turbulent heat transfer and fluid flow of heat exchangers having large tube-diameter and large tube-row by artificial neural networks. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 2484-2497.	2.5	68
42	Characteristics of charcoal combustion and its effects on iron-ore sintering performance. <i>Applied Energy</i> , 2016, 161, 364-374.	5.1	68
43	Review of two types of surface modification on pool boiling enhancement: Passive and active. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 130, 109926.	8.2	68
44	Energy and exergy analysis for waste heat cascade utilization in sinter cooling bed. <i>Energy</i> , 2014, 67, 370-380.	4.5	67
45	Generalized charts of energy storage effectiveness for thermocline heat storage tank design and calibration. <i>Solar Energy</i> , 2011, 85, 2130-2143.	2.9	62
46	Thermal-Hydraulic Performance of Different Discontinuous Fins Used in a Printed Circuit Heat Exchanger for Supercritical CO ₂ . <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 68, 1067-1086.	1.2	62
47	Thermal performance analysis of thermocline combined sensible-latent heat storage system using cascaded-layered PCM designs for medium temperature applications. <i>Renewable Energy</i> , 2020, 152, 684-697.	4.3	62
48	Fin Pattern Effects on Air-Side Heat Transfer and Friction Characteristics of Fin-and-Tube Heat Exchangers with Large Number of Large-Diameter Tube Rows. <i>Heat Transfer Engineering</i> , 2009, 30, 171-180.	1.2	61
49	Shell-side thermal-hydraulic performances of multilayer spiral-wound heat exchangers under different wall thermal boundary conditions. <i>Applied Thermal Engineering</i> , 2014, 70, 1216-1227.	3.0	61
50	Computational study of fluid flow and heat transfer in composite packed beds of spheres with low tube to particle diameter ratio. <i>Nuclear Engineering and Design</i> , 2016, 300, 85-96.	0.8	61
51	Optimization of thermal performance in thermocline tank thermal energy storage system with the multilayered PCM(s) for CSP tower plants. <i>Applied Energy</i> , 2019, 243, 175-190.	5.1	58
52	Effect of fin-endwall fillet on thermal hydraulic performance of airfoil printed circuit heat exchanger. <i>Applied Thermal Engineering</i> , 2015, 89, 1087-1095.	3.0	56
53	Experimental study of commercial charcoal as alternative fuel for coke breeze in iron ore sintering process. <i>Energy Conversion and Management</i> , 2016, 125, 254-263.	4.4	56
54	Waste heat recovery from high-temperature solid granular materials: Energy challenges and opportunities. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 116, 109428.	8.2	56

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55	Optimization of inlet part of a microchannel ceramic heat exchanger using surrogate model coupled with genetic algorithm. <i>Energy Conversion and Management</i> , 2017, 149, 988-996.	4.4	55
56	Numerical prediction for laminar forced convection heat transfer in parallel-plate channels with streamwise-periodic rod disturbances. <i>International Journal for Numerical Methods in Fluids</i> , 1998, 28, 1371-1387.	0.9	54
57	Effect of geometrical parameters on flow and heat transfer performances in multi-stream spiral-wound heat exchangers. <i>Applied Thermal Engineering</i> , 2015, 89, 1104-1116.	3.0	54
58	Experimental investigations on single-phase heat transfer enhancement with longitudinal vortices in narrow rectangular channel. <i>Nuclear Engineering and Design</i> , 2010, 240, 92-102.	0.8	53
59	Numerical study on carbon deposition of SOFC with unsteady state variation of porosity. <i>Applied Energy</i> , 2012, 97, 754-762.	5.1	51
60	Comparison of performances of displacement and mixing ventilations. Part I: thermal comfort. <i>International Journal of Refrigeration</i> , 2005, 28, 276-287.	1.8	49
61	Effect of lateral fin profiles on turbulent flow and heat transfer performance of internally finned tubes. <i>Applied Thermal Engineering</i> , 2009, 29, 3006-3013.	3.0	49
62	Thermal performance analysis of flat heat pipe with graded mini-grooves wick. <i>Applied Energy</i> , 2018, 228, 2129-2139.	5.1	49
63	Recent advancement and enhanced battery performance using phase change materials based hybrid battery thermal management for electric vehicles. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111759.	8.2	49
64	Salt hydrate-based gas-solid thermochemical energy storage: Current progress, challenges, and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111846.	8.2	49
65	Optimization of gaseous fuel injection for saving energy consumption and improving imbalance of heat distribution in iron ore sintering. <i>Applied Energy</i> , 2017, 207, 230-242.	5.1	48
66	Thermal resistance matching for thermoelectric cooling systems. <i>Energy Conversion and Management</i> , 2018, 169, 186-193.	4.4	48
67	The impact of temperature on mean local air age and thermal comfort in a stratum ventilated office. <i>Building and Environment</i> , 2011, 46, 501-510.	3.0	47
68	A new evaluation method for overall heat transfer performance of supercritical carbon dioxide in a printed circuit heat exchanger. <i>Energy Conversion and Management</i> , 2019, 193, 99-105.	4.4	47
69	Prediction of heat transfer rates for shell-and-tube heat exchangers by artificial neural networks approach. <i>Journal of Thermal Science</i> , 2006, 15, 257-262.	0.9	45
70	Numerical investigation on combined single shell-pass shell-and-tube heat exchanger with two-layer continuous helical baffles. <i>International Journal of Heat and Mass Transfer</i> , 2015, 84, 103-113.	2.5	45
71	Forced Convection Heat Transfer Enhancement by Porous Pin Fins in Rectangular Channels. <i>Journal of Heat Transfer</i> , 2010, 132, .	1.2	43
72	Study on heat transfer and pressure drop performances of ribbed channel in the high temperature heat exchanger. <i>Applied Energy</i> , 2012, 99, 393-401.	5.1	43

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73	Sinter strength evaluation using process parameters under different conditions in iron ore sintering process. <i>Applied Thermal Engineering</i> , 2016, 105, 894-904.	3.0	43
74	Experimental and numerical study on pressure drop and heat transfer performance of grille-sphere composite structured packed bed. <i>Applied Energy</i> , 2018, 227, 719-730.	5.1	43
75	Development and characteristics analysis of salt-hydrate based composite sorbent for low-grade thermochemical energy storage. <i>Renewable Energy</i> , 2020, 157, 920-940.	4.3	43
76	Development and performance investigation of MgSO ₄ /SrCl ₂ composite salt hydrate for mid-low temperature thermochemical heat storage. <i>Solar Energy Materials and Solar Cells</i> , 2020, 210, 110509.	3.0	43
77	Experimental investigation on heat transfer performance based on average thermal-resistance ratio for supercritical carbon dioxide in asymmetric airfoil-fin printed circuit heat exchanger. <i>Energy</i> , 2022, 254, 124164.	4.5	43
78	Heat exchanger network retrofit by a shifted retrofit thermodynamic grid diagram-based model and a two-stage approach. <i>Energy</i> , 2020, 198, 117338.	4.5	42
79	Heat transfer of granular flow around aligned tube bank in moving bed: Experimental study and theoretical prediction by thermal resistance model. <i>Energy Conversion and Management</i> , 2022, 257, 115435.	4.4	42
80	Numerical investigation of natural convection in an inclined enclosure filled with porous medium under magnetic field. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 3684-3689.	2.5	41
81	Numerical investigation on shell-side performances of combined parallel and serial two shell-pass shell-and-tube heat exchangers with continuous helical baffles. <i>Applied Energy</i> , 2015, 139, 163-174.	5.1	41
82	Design and optimization of a novel high temperature heat exchanger for waste heat cascade recovery from exhaust flue gases. <i>Energy</i> , 2018, 160, 3-18.	4.5	41
83	Application of a Genetic Algorithm for Thermal Design of Fin-and-Tube Heat Exchangers. <i>Heat Transfer Engineering</i> , 2008, 29, 597-607.	1.2	40
84	Recent progress in sustainable and energy-efficient technologies for sinter production in the iron and steel industry. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 110034.	8.2	40
85	Dispersion in retentive pillar array columns. <i>Journal of Chromatography A</i> , 2010, 1217, 1332-1342.	1.8	39
86	Technologies and fundamentals of waste heat recovery from high-temperature solid granular materials. <i>Applied Thermal Engineering</i> , 2020, 179, 115703.	3.0	39
87	Investigation of a double-PCM-based thermoelectric energy-harvesting device using temperature fluctuations in an ambient environment. <i>Energy</i> , 2020, 202, 117724.	4.5	39
88	Experimental and numerical study of room airflow under stratum ventilation. <i>Building and Environment</i> , 2011, 46, 235-244.	3.0	38
89	Performance of SrBr \cdot 6H ₂ O based seasonal thermochemical heat storage in a novel multilayered sieve reactor. <i>Energy Conversion and Management</i> , 2019, 198, 111843.	4.4	38
90	Improvements on maldistribution of a high temperature multi-channel compact heat exchanger by different inlet baffles. <i>Energy</i> , 2014, 75, 104-115.	4.5	37

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91	Numerical characterization of thermocline behaviour of combined sensible-latent heat storage tank using brick manganese rod structure impregnated with PCM capsules. <i>Solar Energy</i> , 2019, 180, 243-256.	2.9	37
92	Thermal and economic evaluation of phase change material volume fraction for thermocline tank used in concentrating solar power plants. <i>Applied Energy</i> , 2020, 267, 115054.	5.1	37
93	CFD simulation on a thermal power plant with air-cooled heat exchanger system in north China. <i>Engineering Computations</i> , 2008, 25, 342-365.	0.7	36
94	Experimental study of the effect of air inlet angle on the air-side performance for cross-flow finned oval-tube heat exchangers. <i>Experimental Thermal and Fluid Science</i> , 2014, 52, 146-155.	1.5	36
95	Experimental investigation of fluid flow and heat transfer in a randomly packed bed of sinter particles. <i>International Journal of Heat and Mass Transfer</i> , 2016, 99, 589-598.	2.5	36
96	Experimental and Numerical Study of Turbulent Heat Transfer in Twisted Square Ducts. <i>Journal of Heat Transfer</i> , 2001, 123, 868-877.	1.2	35
97	Improvement of heat pattern and sinter strength at high charcoal proportion by applying ultra-lean gaseous fuel injection in iron ore sintering process. <i>Journal of Cleaner Production</i> , 2017, 161, 1374-1384.	4.6	34
98	Thermal and mechanical performance of a hybrid printed circuit heat exchanger used for supercritical carbon dioxide Brayton cycle. <i>Energy Conversion and Management</i> , 2021, 245, 114573.	4.4	34
99	Effect of building re-entrant shape on performance of air-cooled condensing units. <i>Energy and Buildings</i> , 2000, 32, 143-152.	3.1	33
100	Numerical Study of Natural Convection Heat Transfer in an Inclined Porous Cavity with Time-Periodic Boundary Conditions. <i>Transport in Porous Media</i> , 2008, 74, 293-309.	1.2	33
101	Investigation on combined multiple shell-pass shell-and-tube heat exchanger with continuous helical baffles. <i>Energy</i> , 2016, 115, 1572-1579.	4.5	33
102	Experimental investigation on thermal-hydraulic performance of a novel shell-and-tube heat exchanger with unilateral ladder type helical baffles. <i>Applied Thermal Engineering</i> , 2019, 161, 114099.	3.0	33
103	An experimental investigation of density-wave-type oscillations in a convective boiling upflow system. <i>International Journal of Heat and Fluid Flow</i> , 1994, 15, 241-246.	1.1	32
104	DISCUSSION ON NUMERICAL STABILITY AND BOUNDEDNESS OF CONVECTIVE DISCRETIZED SCHEME. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2001, 40, 343-365.	0.6	32
105	Three-dimensional numerical study of natural convection in an inclined porous cavity with time sinusoidal oscillating boundary conditions. <i>International Journal of Heat and Fluid Flow</i> , 2010, 31, 70-82.	1.1	32
106	Second-Law Thermodynamic Comparison and Maximal Velocity Ratio Design of Shell-and-Tube Heat Exchangers With Continuous Helical Baffles. <i>Journal of Heat Transfer</i> , 2010, 132, .	1.2	32
107	Natural Convection Heat Transfer of Copper-Water Nanofluid in a Square Cavity With Time-Periodic Boundary Temperature. <i>Heat Transfer Engineering</i> , 2014, 35, 630-640.	1.2	32
108	Dynamic modelling and transient characteristics of supercritical CO2 recompression Brayton cycle. <i>Energy</i> , 2019, 180, 292-302.	4.5	32

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109	Experimental Study and Genetic-Algorithm-Based Correlation on Shell-Side Heat Transfer and Flow Performance of Three Different Types of Shell-and-Tube Heat Exchangers. <i>Journal of Heat Transfer</i> , 2007, 129, 1277-1285.	1.2	31
110	Experimental and numerical study on heat transfer and pressure drop performance of Cross-Wavy primary surface channel. <i>Energy Conversion and Management</i> , 2016, 125, 80-90.	4.4	31
111	Numerical study on a novel hyperbolic inlet header in straight-channel printed circuit heat exchanger. <i>Applied Thermal Engineering</i> , 2019, 146, 805-814.	3.0	31
112	Characterisation and sorption behaviour of LiOH-LiCl@EG composite sorbents for thermochemical energy storage with controllable thermal upgradeability. <i>Chemical Engineering Journal</i> , 2021, 421, 129586.	6.6	31
113	Boiling onset oscillation: a new type of dynamic instability in a forced-convection upflow boiling system. <i>International Journal of Heat and Fluid Flow</i> , 1996, 17, 418-423.	1.1	30
114	Investigation of a novel bayonet tube high temperature heat exchanger with inner and outer fins. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 3757-3768.	3.8	30
115	Investigation on pressure drop and heat transfer performances of plate-fin iron air preheater unit with experimental and Genetic Algorithm methods. <i>Applied Energy</i> , 2012, 92, 725-732.	5.1	30
116	Evolution of natural convection melting inside cavity heated from different sides using enthalpy based lattice Boltzmann method. <i>International Journal of Heat and Mass Transfer</i> , 2018, 121, 715-725.	2.5	30
117	Thermoelectric effect and temperature-gradient-driven electrokinetic flow of electrolyte solutions in charged nanocapillaries. <i>International Journal of Heat and Mass Transfer</i> , 2019, 143, 118569.	2.5	30
118	Flow instability and transient flow patterns inside intercrossed silicon microchannel array in a micro-timescale. <i>International Journal of Multiphase Flow</i> , 2006, 32, 568-592.	1.6	29
119	Parameter study of transient carbon deposition effect on the performance of a planar solid oxide fuel cell. <i>Applied Energy</i> , 2015, 152, 217-228.	5.1	29
120	Prediction, parametric analysis and bi-objective optimization of waste heat utilization in sinter cooling bed using evolutionary algorithm. <i>Energy</i> , 2015, 90, 24-35.	4.5	29
121	Investigation of hydrodynamic and heat transfer performances in grille-sphere composite pebble beds with DEM-CFD-Taguchi method. <i>Energy</i> , 2018, 155, 909-920.	4.5	29
122	A three-dimensional pore-scale lattice Boltzmann model for investigating the supergravity effects on charging process. <i>Applied Energy</i> , 2019, 254, 113507.	5.1	29
123	Performance comparison of methane steam reforming in a randomly packed bed and a grille-sphere composite packed bed. <i>Energy Conversion and Management</i> , 2019, 193, 39-51.	4.4	29
124	Thermal management evaluation of Li-ion battery employing multiple phase change materials integrated thin heat sinks for hybrid electric vehicles. <i>Journal of Power Sources</i> , 2021, 516, 230680.	4.0	29
125	Experimental Study and Genetic-Algorithm-Based Correlation on Pressure Drop and Heat Transfer Performances of a Cross-Corrugated Primary Surface Heat Exchanger. <i>Journal of Heat Transfer</i> , 2009, 131, .	1.2	28
126	Optimal design of bi-layer interconnector for SOFC based on CFD-Taguchi method. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 4292-4300.	3.8	28

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127	Influence of Different Rim Widths and Blowing Ratios on Film Cooling Characteristics for a Blade Tip. <i>Journal of Heat Transfer</i> , 2012, 134, .	1.2	28
128	A porous building approach for modelling flow and heat transfer around and inside an isolated building on night ventilation and thermal mass. <i>Energy</i> , 2017, 141, 1914-1927.	4.5	28
129	Energy Storage of Low Potential Heat using Lithium Hydroxide Based Sorbent for Domestic Heat Supply. <i>Journal of Cleaner Production</i> , 2021, 285, 124907.	4.6	28
130	Effects of sealing strips on shell-side flow and heat transfer performance of a heat exchanger with helical baffles. <i>Applied Thermal Engineering</i> , 2014, 64, 117-128.	3.0	27
131	Experimental study of flow transitions in structured packed beds of spheres with electrochemical technique. <i>Experimental Thermal and Fluid Science</i> , 2015, 60, 106-114.	1.5	27
132	Thermo-Hydraulic Performance of Printed Circuit Heat Exchanger With Different Cambered Airfoil Fins. <i>Heat Transfer Engineering</i> , 2020, 41, 708-722.	1.2	27
133	Recent Advances in Technology, Strategy and Application of Sustainable Energy Systems. <i>Energies</i> , 2020, 13, 5229.	1.6	27
134	Analysing thermal-hydraulic performance and energy efficiency of shell-and-tube heat exchangers with longitudinal flow based on experiment and numerical simulation. <i>Energy</i> , 2020, 202, 117757.	4.5	27
135	Experimental study of transition flow in packed beds of spheres with different particle sizes based on electrochemical microelectrodes measurement. <i>Applied Thermal Engineering</i> , 2014, 73, 1525-1532.	3.0	26
136	Numerical Simulation of Laminar Film Condensation in a Horizontal Minutube with and Without Non-Condensable Gas by the VOF Method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 68, 958-977.	1.2	26
137	Transient numerical modeling and model predictive control of an industrial-scale steam methane reforming reactor. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 15241-15256.	3.8	26
138	Experimental investigation and artificial intelligent estimation of thermal conductivity of nanofluids with different nanoparticles shapes. <i>Powder Technology</i> , 2022, 398, 117078.	2.1	26
139	Developing Laminar Flow and Heat Transfer in Annular-Sector Ducts. <i>Heat Transfer Engineering</i> , 2000, 21, 53-61.	1.2	25
140	Validation of CFD Model for Research into Displacement Ventilation. <i>Architectural Science Review</i> , 2005, 48, 305-316.	1.1	25
141	Stress analysis of internally finned bayonet tube in a high temperature heat exchanger. <i>Applied Thermal Engineering</i> , 2012, 43, 101-108.	3.0	25
142	Geometrical Parametric Analysis of Flow and Heat Transfer in the Shell Side of a Spiral-Wound Heat Exchanger. <i>Heat Transfer Engineering</i> , 2015, 36, 790-805.	1.2	25
143	Study on chemical spray etching of stainless steel for printed circuit heat exchanger channels. <i>Nuclear Engineering and Design</i> , 2019, 341, 91-99.	0.8	25
144	Experimental study on the heat transfer performance of a gallium heat sink. <i>Energy Conversion and Management</i> , 2020, 213, 112853.	4.4	25

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145	Numerical study of heat transfer in gravity-driven dense particle flow around a hexagonal tube. Powder Technology, 2020, 367, 285-295.	2.1	25
146	Numerical study of Indoor Air Quality and thermal comfort under stratum ventilation. Progress in Computational Fluid Dynamics, 2008, 8, 541.	0.1	24
147	Investigation of thermal radiation effects on solid oxide fuel cell performance by a comprehensive model. Journal of Power Sources, 2012, 206, 185-196.	4.0	24
148	Simulation of thermoelectric-hydraulic performance of a thermoelectric power generator with longitudinal vortex generators. Energy, 2015, 84, 695-703.	4.5	24
149	CFD simulation and optimization of fluid flow distribution inside printed circuit heat exchanger headers. Numerical Heat Transfer; Part A: Applications, 2016, 69, 710-726.	1.2	24
150	Wavelet analysis on the turbulent flow structure of a T-junction. International Journal of Heat and Fluid Flow, 2018, 73, 124-142.	1.1	24
151	Numerical investigation of tube oscillation in gravity-driven granular flow with heat transfer by discrete element method. Energy, 2020, 207, 118203.	4.5	24
152	Computational analysis of heat transfer and pressure drop performance for internally finned tubes with three different longitudinal wavy fins. Heat and Mass Transfer, 2008, 45, 147-156.	1.2	23
153	Predictions of Enhanced Heat Transfer of an Internal Blade Tip-Wall With Hemispherical Dimples or Protrusions. Journal of Turbomachinery, 2011, 133, .	0.9	23
154	Hydraulic and thermal performances of a novel configuration of high temperature ceramic plate-fin heat exchanger. Applied Energy, 2014, 113, 589-602.	5.1	23
155	Thermal-hydraulic characteristics of printed circuit heat exchanger used for floating natural gas liquefaction. Renewable and Sustainable Energy Reviews, 2021, 137, 110606.	8.2	23
156	A target-evaluation method for heat exchanger network optimisation with heat transfer enhancement. Energy Conversion and Management, 2021, 238, 114154.	4.4	23
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