Chi-Chuan Wang

List of Publications by Year
in descending order

341 papers	12,917 citations	26630 56 h-index	38395 95 g-index
341 all docs	341 docs citations	341 times ranked	6048 citing authors

#	Article	IF	Citations
1	Investigation of heat and mass transfer behavior of mannitol during vial freeze-drying. Journal of Thermal Analysis and Calorimetry, 2022, 147, 2393-2404.	3.6	9
2	Assessment of an energy efficient closed loop heat pump dryer for high moisture contents materials: An experimental investigation and AI based modelling. Energy, 2022, 238, 121819.	8.8	29
3	Moist air condensation heat transfer enhancement via superhydrophobicity. International Journal of Heat and Mass Transfer, 2022, 182, 121973.	4.8	19
4	Performance of two-phase loop thermosiphon with graphene nanofluid. Applied Thermal Engineering, 2022, 200, 117714.	6.0	11
5	Experimental and numerical investigation of brazed plate heat exchangers â€“ A new approach. Applied Thermal Engineering, 2022, 200, 117694.	6.0	17
6	Nucleate pool boiling heat transfer of R-1234ze(E) and R-134a on GEWA-B5H and smooth tube with the influence of POE oil. Applied Thermal Engineering, 2022, 201, 117779.	6.0	15
7	Numerical investigation of the effect of chevron angle on thermofluids characteristics of non-mixed and mixed brazed plate heat exchangers with experimental validation. International Journal of Heat and Mass Transfer, 2022, 184, 122278.	4.8	10
8	Personal thermal management - A review on strategies, progress, and prospects. International Communications in Heat and Mass Transfer, 2022, 130, 105739.	5.6	45
9	Potential evaluation of water-based ferric oxide (Fe2O3-water) nanocoolant: An experimental study. Energy, 2022, 246, 123441.	8.8	9
10	An experimental investigation on the cooling curve and drying behavior of static and spin-frozen samples in freezeâ€“drying process. Journal of Thermal Analysis and Calorimetry, 2022, 147, 11221-11230.	3.6	2
11	Computational Fluid Dynamics Study on Heat Transfer Augmentation in Tube With Various V-Cut Twisted Tape. Journal of Heat Transfer, 2022, 144, .	2.1	2
12	Experimental analysis of airflow uniformity and energy consumption in data centers. Applied Thermal Engineering, 2022, 209, 118302.	6.0	10
13	A review and perspective on industry high-temperature heat pumps. Renewable and Sustainable Energy Reviews, 2022, 161, 112106.	16.4	63
14	Numerical study of oblique fins under natural convection with experimental validation. International Journal of Thermal Sciences, 2022, 179, 107668.	4.9	4
15	Heat transfer characteristics of Râ€454B and Râ€454B/POEâ€oil mixture on smooth and GEWA tube: Alternative to Râ€410A. International Journal of Heat and Mass Transfer, 2022, 193, 122972.	4.8	7
16	Role of nanofluids in microchannel heat sinks. , 2022, , 447-478.		0
17	Liquid-to-vapor phase change heat transfer evaluation and parameter sensitivity analysis of nanoporous surface coatings. International Journal of Heat and Mass Transfer, 2022, 194, 123088.	4.8	25
18	Investigation of fouling mitigation using stationary and rotating twisted tapes. Applied Thermal Engineering, 2022, 214, 118896.	6.0	4

#	Article	IF	Citations
19	On the assessment of the mechanical properties of additively manufactured lattice structures. Engineering Analysis With Boundary Elements, 2022, 142, 93-116.	3.7	20
20	Deep Learning Neural Networks for Short-Term PV Power Forecasting via Sky Image Method. Energies, 2022, 15, 4779.	3.1	12
21	Effect of Non-Condensable gas on condensing performance of HFE7100 With/Without hydrophobic coating. Applied Thermal Engineering, 2022, 213, 118807.	6.0	5
22	Performance improvement of heat sink with vapor chamber base and heat pipe. Applied Thermal Engineering, 2022, 215, 118932.	6.0	9
23	Experimental investigation of 3-kW organic Rankine cycle (ORC) system subject to heat source conditions: A new appraisal for assessment. Energy, 2021, 217, 119342.	8.8	26
24	An experimental study on frosting and hybrid defrosting of a cold flat plate under natural convection. International Journal of Heat and Mass Transfer, 2021, 164, 120560.	4.8	4
25	Heat transfer enhancement in fin-and-tube heat exchangers â€“ A review on different mechanisms. Renewable and Sustainable Energy Reviews, 2021, 137, 110470.	16.4	89
26	Enhancement on heat transfer of a passive heat sink with closed thermosiphon loop. Applied Thermal Engineering, 2021, 183, 116243.	6.0	4
27	Thermal performance and entropy generation of singleâ€layer and doubleâ€layer constructal Yâ€shaped bionic microchannel heat sinks. International Journal of Energy Research, 2021, 45, 9449-9462.	4.5	10
28	ENHANCING BOILING HEAT TRANSFER FOR ELECTRONICS COOLING BY EMBEDDING AN ARRAY OF MICROGROOVES INTO SANDBLASTED SURFACES. Heat Transfer Research, 2021, 52, 71-89.	1.6	10
29	A Semi-Empirical Model for Predicting Frost Properties. Processes, 2021, 9, 412.	2.8	6
30	A deep learning method for estimating the boiling heat transfer coefficient of porous surfaces. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1911-1923.	3.6	34
31	Energy-saving of air-cooling heat exchangers operating under wet conditions with the help of superhydrophobic coating. Energy Conversion and Management, 2021, 229, 113740.	9.2	13
32	Nucleate boiling heat transfer of R-134a and R-134a/POE lubricant mixtures on smooth tube. Applied Thermal Engineering, 2021, 185, 116359.	6.0	20
33	Enhancing corrosion resistance of Al 5050 alloy based on surface roughness and its fabrication methods; an experimental investigation. Journal of Materials Research and Technology, 2021, 11, 1859-1867.	5.8	38
34	Optimization of thermal comfort, indoor quality, and energy-saving in campus classroom through deep Q learning. Case Studies in Thermal Engineering, 2021, 24, 100842.	5.7	22
35	Performance of displaced fin heatsink in natural convection subject to upward and downward arrangement. International Journal of Thermal Sciences, 2021, 162, 106797.	4.9	13
36	Performance of Commercially Open Refrigerated Showcases with and without Ice Storageâ€"A Case Study. Processes, 2021, 9, 683.	2.8	4

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37	Numerical Simulation of the Flow and Heat Transfer Induced by Corona Discharge Coupling With Electrostatically Forced Vibration. Journal of Heat Transfer, 2021, 143, .	2.1	0
38	Performance of thermofluidic characteristics of recuperative wavy-plate heat exchangers. International Journal of Heat and Mass Transfer, 2021, 170, 121027.	4.8	5
39	Enhancement of the accuracy of ultrasonic flowmeters by applying the PCA algorithm in predicting flow patterns. Measurement Science and Technology, 2021, 32, 085901.	2.6	3
40	Performance Improvement of a Double-Layer Microchannel Heat Sink via Novel Fin Geometryâ€"A Numerical Study. Energies, 2021, 14, 3585.	3.1	11
41	Role of hybrid-nanofluid in heat transfer enhancement â€“ A review. International Communications in Heat and Mass Transfer, 2021, 125, 105341.	5.6	140
42	Influence of Surface Modification on the Transient Dehumidification Performance of Fin-and-tube Heat Exchanger. International Journal of Heat and Mass Transfer, 2021, 173, 121202.	4.8	8
43	Investigation of the performance of a transcritical CO2 heat pump system subject to heated water conditions: Perspective from the second law. Applied Thermal Engineering, 2021, 193, 116999.	6.0	8
44	Artificial Intelligence for the Prediction of the Thermal Performance of Evaporative Cooling Systems. Energies, 2021, 14, 3946.	3.1	25
45	Experimental Analysis of a Heat Pump Dryer with an External Desiccant Wheel Dryer. Processes, 2021, 9, 1216.	2.8	7
46	Enhanced pool boiling of dielectric and highly wetting liquids â€“ A review on surface engineering. Applied Thermal Engineering, 2021, 195, 117074.	6.0	52
47	A high-fidelity approach to correlate the nucleate pool boiling data of roughened surfaces. International Journal of Multiphase Flow, 2021, 142, 103719.	3.4	25
48	Superhydrophobic fins with inclined arrangement for enhancing energy saving of air-cooled wet heat exchangers. International Journal of Heat and Mass Transfer, 2021, 178, 121636.	4.8	4
49	Energy saving of fans in air-cooled server via deep reinforcement learning algorithm. Energy Reports, 2021, 7, 3437-3448.	5.1	8
50	An experimental investigation on convective boiling heat transfer of R-454B with lubricant oil of POE-32 or POE-68 mixture in a horizontal smooth tube. International Journal of Heat and Mass Transfer, 2021, 181, 121990.	4.8	6
51	Performance analysis of a simulated container data center subject to airflow resistance. Energy Efficiency, 2021, 14, 1.	2.8	2
52	Predictive models on the frost formation for plain surface - a review and comparative study. International Communications in Heat and Mass Transfer, 2021, 129, 105670.	5.6	12
53	Thermal Performance Analysis and Heat Transfer Enhancement Study in an Antminer Mining Machine. Journal of Thermal Science and Engineering Applications, 2021, 13, .	1.5	2
54	Determining the Factors Affecting the Boiling Heat Transfer Coefficient of Sintered Coated Porous Surfaces. Sustainability, 2021, 13, 12631.	3.2	18

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55	Heat Transfer Performance of R-1234ze(E) with the Effect of High-Viscosity POE Oil on Enhanced GEWA-B5H Tube. Processes, 2021, 9, 2285.	2.8	6
56	Boiling Heat Transfer Evaluation in Nanoporous Surface Coatings. Nanomaterials, 2021, 11, 3383.	4.1	17
57	Airside performance of sinusoidal wavy fin-and-tube heat exchangers subject to large-diameter tubes with round or oval configuration. Applied Thermal Engineering, 2020, 164, 114469.	6.0	23
58	Experimental and Numerical Study Upon Uniformity of Impingement Cooling With Pin-Fin Heat Sink. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 88-98.	2.5	6
59	Effects of surface inclination and type of surface roughness on the nucleate boiling heat transfer performance of HFE-7200 dielectric fluid. International Journal of Heat and Mass Transfer, 2020, 147, 119015.	4.8	32
60	Improvement on dehumidifier performance using a plastic assisted condenser. Applied Thermal Engineering, 2020, 167, 114797.	6.0	3
61	Heat transfer enhancement of wavy fin-and-tube heat exchangers via innovative compound designs. International Journal of Thermal Sciences, 2020, 149, 106211.	4.9	24
62	Numerical investigation of thermal and hydraulic performance of shell and plate heat exchanger. Applied Thermal Engineering, 2020, 167, 114705.	6.0	18
63	CFD analysis and experimental verification on a new type of air-cooled heat sink for reducing maximum junction temperature. International Journal of Heat and Mass Transfer, 2020, 148, 119094.	4.8	24
64	Enhanced pool boiling of dielectric and highly wetting liquids - a review on enhancement mechanisms. International Communications in Heat and Mass Transfer, 2020, 119, 104950.	5.6	51
65	Optimization of the airside thermal performance of mini-channel-flat-tube radiators by using composite straight-and-louvered fins. International Journal of Heat and Mass Transfer, 2020, 160, 120163.	4.8	23
66	Experimental investigation on defrosting of a cold flat plate via ultrasonic vibration under natural convection. Applied Thermal Engineering, 2020, 179, 115729.	6.0	16
67	Heat transfer simulation of annular elliptical fin-and-tube heat exchanger by transition SST model. Journal of Central South University, 2020, 27, 2324-2337.	3.0	9
68	Experimental Investigation of the Thermofluid Characteristics of Shell-and-Plate Heat Exchangers. Energies, 2020, 13, 5304.	3.1	11
69	Nucleate Pool Boiling Heat Transfer from High-Flux Tube with Dielectric Fluid HFE-7200. Energies, 2020, 13, 2313.	3.1	10
70	Investigations regarding the influence of soft metal and low melting temperature alloy on thermal contact resistance. International Communications in Heat and Mass Transfer, 2020, 116, 104626.	5.6	5
71	Performance improvement of photovoltaic modules via temperature homogeneity improvement. Energy, 2020, 203, 117816.	8.8	49
72	Performance analysis of a membrane dehumidifier system subject to component characteristics â€“ a numerical model. Science and Technology for the Built Environment, 2020, 26, 987-999.	1.7	4

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73	Investigation of performance augmentation for natural convective heatsink with the help of chimney. Applied Thermal Engineering, 2020, 178, 115586.	6.0	10
74	Energy-saving potential of separated two-phase thermosiphon loops for data center cooling. Journal of Thermal Analysis and Calorimetry, 2020, 141, 245-265.	3.6	7
75	Assessment on rack intake flowrate uniformity of data center with cold aisle containment configuration. Journal of Building Engineering, 2020, 30, 101331.	3.4	12
76	Non-Uniform Three-Dimensional Pulsating Heat Pipe for Anti-Gravity High-Flux Applications. Energies, 2020, 13, 3068.	3.1	10
77	A mechanistic model for nucleate boiling heat transfer performance with lubricant-refrigerant mixture. International Journal of Heat and Mass Transfer, 2020, 159, 120092.	4.8	8
78	A Criterion of Heat Transfer Deterioration for Supercritical Organic Fluids Flowing Upward and Its Heat Transfer Correlation. Energies, 2020, 13, 989.	3.1	1
79	Numerical analysis of thermohydraulic behavior in a directional solidification furnace. Journal of Thermal Analysis and Calorimetry, 2020, 141, 483-494.	3.6	0
80	Thermal design aspects for improving temperature homogeneity of silicon wafer during thermal processing in microlithography. Applied Thermal Engineering, 2020, 171, 115118.	6.0	4
81	Augmentation of natural convection heat sink via using displacement design. International Journal of Heat and Mass Transfer, 2020, 154, 119757.	4.8	36
82	Impact of Overhead Air Supply Layout on the Thermal Performance of a Container Data Center. Journal of Electronic Packaging, Transactions of the ASME, 2020, 142, .	1.8	7
83	A Novel Means Combining Corona Discharge and Electrostatic Force-Induced Vibration for Convective Heat Transfer. Journal of Heat Transfer, 2020, 142, .	2.1	2
84	OPTIMIZATION OF THE LOUVER FIN-AND-TUBE HEAT EXCHANGERS-A PARAMETRIC APPROACH. Journal of Enhanced Heat Transfer, 2020, 27, 289-312.	1.1	11
85	NUCLEATE POOL BOILING OF SINTERED COATED POROUS SURFACES WITH DIELECTRIC LIQUID, HFE-7200. Journal of Enhanced Heat Transfer, 2020, 27, 767-784.	1.1	13
86	An analytically based method to estimate the effective thermal diffusivity of a heat pipe. Measurement Science and Technology, 2020, 32, 015902.	2.6	0
87	A Comparative Study of the Oil-Free Centrifugal Water Chillers with the Flooded or Falling Film Evaporatorâ€"A Case Study. Energies, 2019, 12, 2548.	3.1	0
88	The numerical simulation with staggered alternation locations and multi-flow directions on the thermal performance of double-layer microchannel heat sinks. Applied Thermal Engineering, 2019, 163, 114332.	6.0	34
89	Utilization of low-melting temperature alloy with confined seal for reducing thermal contact resistance. Applied Thermal Engineering, 2019, 163, 114438.	6.0	18
90	Experiments for suitability of plastic heat exchangers for dehumidification applications. Applied Thermal Engineering, 2019, 158, 113827.	6.0	15

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91	Comparative study for CO2 and R-134a heat pump tumble dryer â€“ A rational approach. International Journal of Refrigeration, 2019, 106, 474-491.	3.4	18
92	Enhanced dehumidification via hybrid hydrophilic/hydrophobic morphology having wedge gradient and drainage channels. Heat and Mass Transfer, 2019, 55, 3359-3368.	2.1	6
93	CFD Investigation of Airflow Management in a Small Container Data Center. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 2177-2188.	2.5	8
94	A novel micro-channel heat sink with trapezoid drainage for enhancing condensation heat transfer of dielectric fluid. Experimental Thermal and Fluid Science, 2019, 106, 11-24.	2.7	5
95	Experimental study on the energy harvesting of a cooktop via thermoelectric module assisted with phase change material. Energy Storage, 2019, 1, e55.	4.3	1
96	Energy optimization associated with thermal comfort and indoor air control via a deep reinforcement learning algorithm. Building and Environment, 2019, 155, 105-117.	6.9	112
97	Performance of novel liquid-cooled porous heat sink via 3-D laser additive manufacturing. International Journal of Heat and Mass Transfer, 2019, 137, 558-564.	4.8	31
98	Experimental and numerical study on the performance of passive heat sink having alternating layout. International Journal of Heat and Mass Transfer, 2019, 135, 822-836.	4.8	22
99	Airside Performance of H-Type Finned Tube Banks with Surface Modifications. Energies, 2019, 12, 584.	3.1	6
100	Investigation of Separated Two-Phase Thermosiphon Loop for Relieving the Air-Conditioning Loading in Datacenter. Energies, 2019, 12, 105.	3.1	12
101	A review on airflow management in data centers. Applied Energy, 2019, 240, 84-119.	10.1	85
102	Experimental Investigation Regarding Rack Pressure Resistance on Cooling Performance of a Container Data Center. International Journal of Air-Conditioning and Refrigeration, 2019, 27, 1950038.	0.7	0
103	A rationally based model applicable for heat pump tumble dryer. Drying Technology, 2019, 37, 691-706.	3.1	19
104	Effects of tube shapes on the performance of recuperative and regenerative heat exchangers. Energy, 2019, 169, 1-17.	8.8	23
105	Experimental investigation on thermal management for small container data center. Journal of Building Engineering, 2019, 21, 317-327.	3.4	22
106	Thermal Material for PCB Substrate and Its Measurement Method. Journal of Japan Institute of Electronics Packaging, 2019, 22, 205-208.	0.1	0
107	A generalized log-linear poisson-modeled correlation to predict the optimal heat rejection pressure of transcritical CO2 systems. Science and Technology for the Built Environment, 2018, 24, 897-907.	1.7	3
108	Analysis and experimental verification of weight saving with trapezoidal base heat sink. Applied Thermal Engineering, 2018, 132, 275-282.	6.0	7

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109	Optimal design of the semi-dimple vortex generator in the fin and tube heat exchanger. International Journal of Heat and Mass Transfer, 2018, 120, 1173-1186.	4.8	44
110	Effect of elliptical winglet on the air-side performance of fin-and-tube heat exchanger. International Journal of Heat and Mass Transfer, 2018, 123, 583-599.	4.8	31
111	Selected Papers from the 3rd International Workshop on Heat Transfer Advances for Energy Conservation and Pollution Control (IWHT2015). Heat Transfer Engineering, 2018, 39, 583-585.	1.9	0
112	On Effective Design and Operating Conditions of Desiccant Dehumidification System. Heat Transfer Engineering, 2018, 39, 598-607.	1.9	1
113	A numerical study of the supercritical CO2 plate heat exchanger subject to U-type, Z-type, and multi-pass arrangements. Heat and Mass Transfer, 2018, 54, 69-79.	2.1	2
114	Optimization of thermal performance of multi-nozzle trapezoidal microchannel heat sinks by using nanofluids of Al2O3 and TiO2. International Journal of Heat and Mass Transfer, 2018, 117, 787-798.	4.8	29
115	Simulation and Analysis of the Supercritical ORC Heat Exchanger. , 2018, , .		0
116	A Novel Thermal Module with 3-D Configuration Pulsating Heat Pipe for High-Flux Applications. Energies, 2018, 11, 3425.	3.1	10
117	An experimental study and empirical correlations to describe the effect of lubricant oil on the nucleate boiling heat transfer performance for R-1234ze and R-134a. International Communications in Heat and Mass Transfer, 2018, 97, 78-84.	5.6	12
118	Compound Heat Transfer Enhancement of Wavy Fin-and-Tube Heat Exchangers through Boundary Layer Restarting and Swirled Flow. Energies, 2018, 11, 1959.	3.1	25
119	AN EXPERIMENTAL STUDY OF PLASTIC HEAT EXCHANGERS APPLICABLE FOR DEHUMIDIFICATION. , 2018, , .		2
120	Review of defrosting methods. Renewable and Sustainable Energy Reviews, 2017, 73, 53-74.	16.4	151
121	A study of heat transfer enhancement via corona discharge by using a plate corona electrode. Journal of Electrostatics, 2017, 87, 1-10.	1.9	30
122	Analytical and experimental verification of interleaved trapezoidal heat sink. , 2017, , .		1
123	Superhydrophobic Si nanowires for enhanced condensation heat transfer. International Journal of Heat and Mass Transfer, 2017, 111, 614-623.	4.8	63
124	Investigation of the evacuation pressure on the performance of pulsating heat pipe. International Communications in Heat and Mass Transfer, 2017, 85, 23-28.	5.6	29
125	On cold-aisle containment of a container datacenter. Applied Thermal Engineering, 2017, 112, 133-142.	6.0	36
126	A novel oxidized composite braided wires wick structure applicable for ultra-thin flattened heat pipes. International Communications in Heat and Mass Transfer, 2017, 88, 84-90.	5.6	44

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127	Experimental investigation of moist air condensation on hydrophilic, hydrophobic, superhydrophilic, and hybrid hydrophobic-hydrophilic surfaces. International Journal of Heat and Mass Transfer, 2017, 115, 1032-1041.	4.8	60
128	Constraints-free modeling and experimental validation of a transcritical CO2 system for medium and large scale applications. Applied Thermal Engineering, 2017, 124, 136-151.	6.0	3
129	Analytical analysis and experimental verification of interleaved parallelogram heat sink. Applied Thermal Engineering, 2017, 112, 739-749.	6.0	9
130	A review of current status of free cooling in datacenters. Applied Thermal Engineering, 2017, 114, 1224-1239.	6.0	98
131	Enhanced condensation heat transfer for dielectric fluid within microchannel heat sink. International Journal of Heat and Mass Transfer, 2017, 106, 518-525.	4.8	8
132	Airflow Management on the Efficiency Index of a Container Data Center Having Overhead Air Supply. Journal of Electronic Packaging, Transactions of the ASME, 2017, 139, .	1.8	18
133	A Quick Overview of Compact Air-Cooled Heat Sinks Applicable for Electronic Coolingâ€"Recent Progress. Inventions, 2017, 2, 5.	2.5	26
134	A novel double pipe pulsating heat pipe design to tackle inverted heat source arrangement. Applied Thermal Engineering, 2016, 106, 697-701.	6.0	25
135	Analytical analysis and experimental verification of trapezoidal fin for assessment of heat sink performance and material saving. Applied Thermal Engineering, 2016, 98, 203-212.	6.0	18
136	An experimental and analytical investigation of the photo-thermal-electro characteristics of a high power InGaN LED module. Applied Thermal Engineering, 2016, 98, 756-765.	6.0	15
137	Heat transfer enhancement of an impinging synthetic air jet using diffusion-shaped orifice. Applied Thermal Engineering, 2016, 94, 178-185.	6.0	24
138	A Study on Heat Sink Performance Using V-Shaped Cannelure Structure Fin. , 2015, , .		0
139	Performance improvement of high power liquid-cooled heat sink via non-uniform metal foam arrangement. Applied Thermal Engineering, 2015, 87, 41-46.	6.0	30
140	Improvements of Airflow Distribution in a Container Data Center. Energy Procedia, 2015, 75, 1819-1824.	1.8	30
141	An experimental study of inclination on the boiling heat transfer characteristics of a micro-channel heat sink using HFE-7100. International Communications in Heat and Mass Transfer, 2015, 62, 13-17.	5.6	25
142	Effect of pressure on the moisture adsorption of silica gel and zeolite 13X adsorbents. Heat and Mass Transfer, 2015, 51, 441-447.	2.1	12
143	Parametric study on thermal performance of microchannel heat sinks with internal vertical Y-shaped bifurcations. International Journal of Heat and Mass Transfer, 2015, 90, 948-958.	4.8	98
144	Two-phase pressure drops and flow pattern observations in 90Â° bends subject to upward, downward and horizontal arrangements. Experimental Thermal and Fluid Science, 2015, 68, 484-492.	2.7	13

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145	Review on CO2 heat pump water heater for residential use in Japan. Renewable and Sustainable Energy Reviews, 2015, 50, 1383-1391.	16.4	73
146	Performance of piezoelectric fins for heat dissipation. International Journal of Heat and Mass Transfer, 2015, 86, 72-77.	4.8	7
147	The New Mathematical Models for Plain Fin-and-Tube Heat Exchangers With Dehumidification. Journal of Heat Transfer, 2015, 137, .	2.1	4
148	A novel trapezoid fin pattern applicable for air-cooled heat sink. Heat and Mass Transfer, 2015, 51, 1631-1637.	2.1	11
149	Performance of bare-tube bundle having small diameter tube: With and without partial bypass. International Communications in Heat and Mass Transfer, 2015, 67, 73-80.	5.6	1
150	Investigation of the semi-dimple vortex generator applicable to fin-and-tube heat exchangers. Applied Thermal Engineering, 2015, 88, 192-197.	6.0	33
151	An experimental study of the air-side performance of fin-and-tube heat exchangers having plain, louver, and semi-dimple vortex generator configuration. International Journal of Heat and Mass Transfer, 2015, 80, 281-287.	4.8	69
152	Dynamic Response of a 50 kW Organic Rankine Cycle System in Association with Evaporators. Energies, 2014, 7, 2436-2448.	3.1	26
153	An optimized heat dissipation fin design applicable for natural convection augmentation (IMPACT) Tj ETQq1 1 0.784314 rgBT /Overlo	1	
154	Spatial Control of Heterogeneous Nucleation on the Superhydrophobic Nanowire Array. Advanced Functional Materials, 2014, 24, 1211-1217.	14.9	95
155	Influence of Lubricant on the Nucleate Boiling Heat Transfer Performance of Refrigerantâ€"A Review. Heat Transfer Engineering, 2014, 35, 651-663.	1.9	12
156	System performance of R-1234yf refrigerant in air-conditioning and heat pump system â€“ An overview of current status. Applied Thermal Engineering, 2014, 73, 1412-1420.	6.0	53
157	A novel heat dissipation fin design applicable for natural convection augmentation. International Communications in Heat and Mass Transfer, 2014, 59, 24-29.	5.6	49
158	Effect of partial bypass on the heat transfer performance of dehumidifying coils. International Communications in Heat and Mass Transfer, 2014, 58, 132-137.	5.6	5
159	Performance and two-phase flow pattern for micro flat heat pipes. International Journal of Heat and Mass Transfer, 2014, 77, 1115-1123.	4.8	30
160	Influence of electrode configuration on the heat transfer performance of a LED heat source. International Journal of Heat and Mass Transfer, 2014, 77, 795-801.	4.8	37
161	Scale Effect on Dropwise Condensation on Superhydrophobic Surfaces. ACS Applied Materials & Interfaces, 2014, 6, 14353-14359.	8.0	59
162	Investigation of the performance of pulsating heat pipe subject to uniform/alternating tube diameters. Experimental Thermal and Fluid Science, 2014, 54, 85-92.	2.7	79

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163	Performance evaluation of a tube-in-tube CO2 gas cooler used in a heat pump water heater. Experimental Thermal and Fluid Science, 2014, 54, 304-312.	2.7	20
164	Response of a 50kW Organic Rankine Cycle System Subject to Influence of Evaporators. Energy Procedia, 2014, 61, 635-638.	1.8	6
165	Effect of non-uniform heating on the performance of the microchannel heat sinks. International Communications in Heat and Mass Transfer, 2013, 43, 57-62.	5.6	24
166	Orientation effect on heat transfer of a shrouded LED backlight panel with a plate-fin array. International Communications in Heat and Mass Transfer, 2013, 42, 51-54.	5.6	11
167	An experimental study on the heat dissipation of LED lighting module using metal/carbon foam. International Communications in Heat and Mass Transfer, 2013, 48, 73-79.	5.6	44
168	Enhanced cooling for LED lighting using ionic wind. International Journal of Heat and Mass Transfer, 2013, 57, 285-291.	4.8	101
169	A visual observation of the air flow pattern for the high speed nozzle applicable to high power laser cutting and welding. International Communications in Heat and Mass Transfer, 2013, 49, 49-54.	5.6	9
170	Modeling and simulation of the transcritical CO2 heat pump system. International Journal of Refrigeration, 2013, 36, 2048-2064.	3.4	25
171	Investigation of the two-phase convective boiling of HFO-1234yf in a 3.9mm diameter tube. International Journal of Heat and Mass Transfer, 2013, 65, 545-551.	4.8	50
172	An overview for the heat transfer performance of HFO-1234yf. Renewable and Sustainable Energy Reviews, 2013, 19, 444-453.	16.4	25
173	Effect of oscillatory EHD on the heat transfer performance of a flat plate. International Journal of Heat and Mass Transfer, 2013, 61, 419-424.	4.8	20
174	Enhanced Heat Transfer Performance of Air-Cooled Heat Exchangers Using â€œPartial Bypassâ€•Concept. Heat Transfer Engineering, 2012, 33, 1217-1219.	1.9	4
175	A Comparative Study of Nozzle/Diffuser Micropumps with Novel Valves. Molecules, 2012, 17, 2178-2187.	3.8	23
176	Performance of a tube-in-tube CO2 gas cooler. International Journal of Refrigeration, 2012, 35, 2033-2038.	3.4	26
177	An overview of the effect of lubricant on the heat transfer performance on conventional refrigerants and natural refrigerant R-744. Renewable and Sustainable Energy Reviews, 2012, 16, 5071-5086.	16.4	32
178	A novel design of pulsating heat pipe with fewer turns applicable to all orientations. International Journal of Heat and Mass Transfer, 2012, 55, 5722-5728.	4.8	130
179	Theoretical study of oscillatory phenomena in a horizontal closed-loop pulsating heat pipe with asymmetrical arrayed minichannel. International Communications in Heat and Mass Transfer, 2012, 39, 923-930.	5.6	16
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