Kwan-Soo Lee

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A one-dimensional model for frost formation on a cold flat surface. International Journal of Heat and Mass Transfer, 1997, 40, 4359-4365.	4.8	221
2	Influence of design parameters on the heat transfer and flow friction characteristics of the heat exchanger with slit fins. International Journal of Heat and Mass Transfer, 2000, 43, 2529-2539.	4.8	185
3	Prediction of the frost formation on a cold flat surface. International Journal of Heat and Mass Transfer, 2003, 46, 3789-3796.	4.8	137
4	Effect of surface treatments on the frosting/defrosting behavior of a fin-tube heat exchanger. International Journal of Refrigeration, 2002, 25, 1047-1053.	3.4	121
5	Optimum design of a radial heat sink under natural convection. International Journal of Heat and Mass Transfer, 2011, 54, 2499-2505.	4.8	121
6	Frosting characteristics on hydrophobic and superhydrophobic surfaces: A review. Energy Conversion and Management, 2017, 138, 1-11.	9.2	120
7	Multidisciplinary optimization of a pin-fin radial heat sink for LED lighting applications. International Journal of Heat and Mass Transfer, 2012, 55, 515-521.	4.8	118
8	Optimum design of a radial heat sink with a fin-height profile for high-power LED lighting applications. Applied Energy, 2014, 116, 260-268.	10.1	118
9	Natural convection around a radial heat sink. International Journal of Heat and Mass Transfer, 2010, 53, 2935-2938.	4.8	111
10	Correlations and optimization of a heat exchanger with offset-strip fins. International Journal of Heat and Mass Transfer, 2011, 54, 2073-2079.	4.8	101
11	Dimensionless correlations of frost properties on a cold plate. International Journal of Refrigeration, 2004, 27, 89-96.	3.4	100
12	Transport phenomena in the thin-film region of a micro-channel. International Journal of Heat and Mass Transfer, 2003, 46, 2381-2388.	4.8	94
13	Frosting and defrosting characteristics of a fin according to surface contact angle. International Journal of Heat and Mass Transfer, 2011, 54, 2758-2764.	4.8	78
14	A model on the basis of analytics for computing maximum heat transfer in porous fins. International Journal of Heat and Mass Transfer, 2012, 55, 7611-7622.	4.8	77
15	Modeling for predicting frosting behavior of a fin–tube heat exchanger. International Journal of Heat and Mass Transfer, 2006, 49, 1472-1479.	4.8	76
16	Direct growth of cerium oxide nanorods on diverse substrates for superhydrophobicity and corrosion resistance. Applied Surface Science, 2015, 340, 96-101.	6.1	74
17	Flow and heat transfer characteristics of the evaporating extended meniscus in a micro-capillary channel. International Journal of Heat and Mass Transfer, 2003, 46, 4587-4594.	4.8	73
18	Frosting model for predicting macroscopic and local frost behaviors on a cold plate. International Journal of Heat and Mass Transfer, 2015, 82, 135-142.	4.8	73

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19	Optimization of a chimney design for cooling efficiency of a radial heat sink in a LED downlight. Energy Conversion and Management, 2016, 114, 180-187.	9.2	72
20	The orientation effect for cylindrical heat sinks with application to LED light bulbs. International Journal of Heat and Mass Transfer, 2014, 71, 496-502.	4.8	71
21	Frosting and defrosting characteristics of surface-treated louvered-fin heat exchangers: Effects of fin pitch and experimental conditions. International Journal of Heat and Mass Transfer, 2013, 60, 505-511.	4.8	70
22	Fin spacing optimization of a fin-tube heat exchanger under frosting conditions. International Journal of Heat and Mass Transfer, 2006, 49, 2619-2625.	4.8	62
23	Friction and Colburn factor correlations and shape optimization ofÂchevron-type plate heat exchangers. Applied Thermal Engineering, 2015, 89, 62-69.	6.0	62
24	Investigation of heat transfer characteristics on various kinds of fin-and-tube heat exchangers with interrupted surfaces. International Journal of Heat and Mass Transfer, 1999, 42, 2375-2385.	4.8	61
25	Analysis of heat transfer and pressure drop characteristics in an offset strip fin heat exchanger. International Communications in Heat and Mass Transfer, 2009, 36, 259-263.	5.6	61
26	Flow characteristics and thermal performance in chevron type plate heat exchangers. International Journal of Heat and Mass Transfer, 2014, 78, 699-706.	4.8	58
27	Frost formation on a cold surface under turbulent flow. International Journal of Refrigeration, 2006, 29, 164-169.	3.4	57
28	Modeling of frosting behavior on a cold plate. International Journal of Refrigeration, 2005, 28, 396-402.	3.4	55
29	Control system for maximum use of adhesive forces of a railway vehicle in a tractive mode. Mechanical Systems and Signal Processing, 2008, 22, 709-720.	8.0	55
30	Feasibility study on a novel cooling technique using a phase change material in an automotive engine. Energy, 2010, 35, 478-484.	8.8	55
31	Optimization of a staggered pin-fin for a radial heat sink under free convection. International Journal of Heat and Mass Transfer, 2015, 87, 184-188.	4.8	55
32	Optimal design of a double pipe heat exchanger based on the outward helically corrugated tube. International Journal of Heat and Mass Transfer, 2019, 135, 706-716.	4.8	55
33	Effect of air-gap fans on cooling of windings in a large-capacity, high-speed induction motor. Applied Thermal Engineering, 2016, 100, 658-667.	6.0	53
34	Determination method of defrosting start-time based on temperature measurements. Applied Energy, 2015, 146, 263-269.	10.1	52
35	NUMERICAL SHAPE OPTIMIZATION FOR HIGH PERFORMANCE OF A HEAT SINK WITH PIN-FINS. Numerical Heat Transfer; Part A: Applications, 2004, 46, 909-927.	2.1	51
36	Effect of radiation in a radial heat sink under natural convection. International Journal of Heat and Mass Transfer, 2012, 55, 505-509.	4.8	50

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37	Thermal performance improvement of a radial heat sink with a hollow cylinder for LED downlight applications. International Journal of Heat and Mass Transfer, 2015, 89, 1184-1189.	4.8	50
38	Performance prediction of a fin-and-tube heat exchanger considering air-flow reduction due to the frost accumulation. International Journal of Heat and Mass Transfer, 2013, 67, 225-233.	4.8	49
39	Dimensionless correlations of frost properties on a cold cylinder surface. International Journal of Heat and Mass Transfer, 2008, 51, 3946-3952.	4.8	48
40	Numerical investigation and optimization of the thermal performance of a brushless DC motor. International Journal of Heat and Mass Transfer, 2009, 52, 1589-1599.	4.8	48
41	Characteristics and performance evaluation of surface-treated louvered-fin heat exchangers under frosting and wet conditions. International Journal of Heat and Mass Transfer, 2012, 55, 6676-6681.	4.8	48
42	Optimal shape and arrangement of staggered pins in the channel of a plate heat exchanger. International Journal of Heat and Mass Transfer, 2001, 44, 3223-3231.	4.8	47
43	Active coolant control strategies in automotive engines. International Journal of Automotive Technology, 2010, 11, 767-772.	1.4	47
44	A unified analysis of filling and solidification in casting with natural convection. International Journal of Heat and Mass Transfer, 2001, 44, 1507-1515.	4.8	45
45	Analytic solution for heat transfer of wet fins on account of all nonlinearity effects. Energy, 2012, 41, 354-367.	8.8	45
46	A novel louvered fin design to enhance thermal and drainage performances during periodic frosting/defrosting conditions. Energy Conversion and Management, 2016, 110, 494-500.	9.2	45
47	A study of spray strategies on improvement of engine performance and emissions reduction characteristics in a DME fueled diesel engine. Energy, 2011, 36, 1802-1813.	8.8	44
48	Fourier and non-Fourier heat conduction analysis in the absorber plates of a flat-plate solar collector. Solar Energy, 2012, 86, 3030-3039.	6.1	43
49	Thermal performance of microchannel heat exchangers according to the design parameters under the frosting conditions. International Journal of Heat and Mass Transfer, 2014, 71, 626-632.	4.8	42
50	Exact analysis for minimum shape of porous fins under convection and radiation heat exchange with surrounding. International Journal of Heat and Mass Transfer, 2015, 81, 439-448.	4.8	40
51	Numerical modeling of frost growth and densification on a cold plate using frost formation resistance. International Journal of Heat and Mass Transfer, 2017, 115, 1055-1063.	4.8	40
52	OPTIMUM DESIGN OF PLATE HEAT EXCHANGER WITH STAGGERED PIN ARRAYS. Numerical Heat Transfer; Part A: Applications, 2004, 45, 347-361.	2.1	39
53	A proper analytical analysis of annular step porous fins for determining maximum heat transfer. Energy Conversion and Management, 2016, 110, 469-480.	9.2	39
54	Supersonic Flutter of Functionally Grated Panels Subject to Acoustic and Thermal Loads. Journal of Aircraft, 2009, 46, 593-600.	2.4	38

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55	A study on the linear compressor characteristics of the Stirling cryocooler. Cryogenics, 2002, 42, 427-432.	1.7	37
56	The behavior of frost layer growth under conditions favorable for desublimation. International Journal of Heat and Mass Transfer, 2018, 120, 259-266.	4.8	37
57	Modeling of frost layer growth considering frost porosity. International Journal of Heat and Mass Transfer, 2018, 126, 980-988.	4.8	37
58	Experimental investigation of frost retardation for superhydrophobic surface using a luminance meter. International Journal of Heat and Mass Transfer, 2015, 87, 491-496.	4.8	36
59	Generalized heat-transfer and fluid-flow correlations for corrugated louvered fins. International Journal of Heat and Mass Transfer, 2015, 83, 604-612.	4.8	35
60	Frosting behaviors and thermal performance of louvered fins with unequal louver pitch. International Journal of Heat and Mass Transfer, 2016, 95, 499-505.	4.8	35
61	Local frosting behavior of a plated-fin and tube heat exchanger according to the refrigerant flow direction and surface treatment. International Journal of Heat and Mass Transfer, 2013, 64, 751-758.	4.8	34
62	Optimum hub height of a wind turbine for maximizing annual net profit. Energy Conversion and Management, 2015, 100, 90-96.	9.2	34
63	Correlation of cross-cut cylindrical heat sink to improve the orientation effect of LED light bulbs. International Journal of Heat and Mass Transfer, 2015, 84, 821-826.	4.8	34
64	Fabrication of three-dimensional metal-graphene network phase change composite for high thermal conductivity and suppressed subcooling phenomena. Energy Conversion and Management, 2017, 149, 608-615.	9.2	34
65	Stochastic approach to the anti-freezing behaviors of superhydrophobic surfaces. International Journal of Heat and Mass Transfer, 2017, 106, 841-846.	4.8	34
66	Heat transfer improvement of a wet fin under transient response with a unique design arrangement aspect. International Journal of Heat and Mass Transfer, 2018, 127, 1239-1251.	4.8	34
67	Microscopic observation of frost behaviors at the early stage of frost formation on hydrophobic surfaces. International Journal of Heat and Mass Transfer, 2016, 97, 861-867.	4.8	33
68	Numerical investigation of the air-gap flow heating phenomena in large-capacity induction motors. International Journal of Heat and Mass Transfer, 2017, 110, 746-752.	4.8	33
69	Frost layer growth behavior under cryogenic conditions. Applied Thermal Engineering, 2019, 163, 114333.	6.0	33
70	Determination of airside heat transfer coefficient on wire-on-tube type heat exchanger. International Journal of Heat and Mass Transfer, 2001, 44, 1767-1776.	4.8	32
71	Analytical tools for calculating the maximum heat transfer of annular stepped fins with internal heat generation and radiation effects. Energy, 2014, 76, 733-748.	8.8	32
72	Refrigerant circuitry design of fin-and-tube condenser based on entropy generation minimization. International Journal of Refrigeration, 2012, 35, 1430-1438.	3.4	31

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73	Correlations and shape optimization in a channel with aligned dimples and protrusions. International Journal of Heat and Mass Transfer, 2013, 64, 444-451.	4.8	31
74	A non-Fourier analysis for transmitting heat in fins with internal heat generation. International Journal of Heat and Mass Transfer, 2013, 64, 1153-1162.	4.8	29
75	Heat removal by aluminum-foam heat sinks in a multi-air jet impingement. IEEE Transactions on Components and Packaging Technologies, 2005, 28, 142-148.	1.3	28
76	A study on the reduction of exhaust emissions through HCCI combustion by using a narrow spray angle and advanced injection timing in a DME engine. Fuel Processing Technology, 2011, 92, 1756-1763.	7.2	28
77	Frost growth mechanism and its behavior under ultra-low temperature conditions. International Journal of Heat and Mass Transfer, 2021, 169, 120941.	4.8	28
78	Enhanced heat transfer performance for multi-tube heat exchangers with various tube arrangements. International Journal of Heat and Mass Transfer, 2021, 168, 120905.	4.8	28
79	Frosting and defrosting behavior of slippery surfaces and utilization of mechanical vibration to enhance defrosting performance. International Journal of Heat and Mass Transfer, 2018, 125, 858-865.	4.8	27
80	Modeling of Adhesion for Railway Vehicles. Journal of Adhesion Science and Technology, 2008, 22, 1017-1034.	2.6	26
81	Differential Transform Method for Thermal Analysis of Exponential Fins under Sensible and Latent Heat Transfer. Procedia Engineering, 2015, 127, 287-294.	1.2	26
82	Optimization of the design factors for thermal performance of a parallel-flow heat exchanger. International Journal of Heat and Mass Transfer, 2002, 45, 4773-4780.	4.8	25
83	Optimal design of a corrugated louvered fin. Applied Thermal Engineering, 2014, 68, 76-79.	6.0	25
84	Thermal nexus model for the thermal characteristic analysis of an open-type air-cooled induction motor. Applied Thermal Engineering, 2017, 112, 1108-1116.	6.0	25
85	Frost modeling under cryogenic conditions. International Journal of Heat and Mass Transfer, 2020, 161, 120250.	4.8	25
86	PRIMARY AND SECONDARY INSTABILITIES IN A GLASS-MELTING SURFACE. Numerical Heat Transfer; Part A: Applications, 1999, 36, 309-325.	2.1	24
87	Effects of stacked condensers in a high-rise apartment building. Energy, 2005, 30, 968-981.	8.8	24
88	Investigation of the Swirl Effect on Diffusion Flame in a Direct-Injection (DI) Diesel Engine Using Image Processing Technology. Energy & Fuels, 2008, 22, 3687-3694.	5.1	24
89	Aero-thermo-mechanical characteristics of imperfect shape memory alloy hybrid composite panels. Journal of Sound and Vibration, 2009, 325, 583-596.	3.9	24
90	Facile Fabrication of Superomniphobic Polymer Hierarchical Structures for Directional Droplet Movement. ACS Applied Materials & Interfaces, 2017, 9, 9213-9220.	8.0	24

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91	Fabrication of micro-patterned aluminum surfaces for low ice adhesion strength. Applied Surface Science, 2018, 440, 643-650.	6.1	24
92	Frost behavior on a fin considering the heat conduction of heat exchanger fins. International Journal of Heat and Mass Transfer, 2009, 52, 2581-2588.	4.8	23
93	Characteristics of frost formation on two-dimensional fins and its empirical correlations. International Journal of Heat and Mass Transfer, 2010, 53, 2670-2675.	4.8	22
94	Adaptive defrost methods for improving defrosting efficiency of household refrigerator. Energy Conversion and Management, 2018, 157, 511-516.	9.2	22
95	The effects of design and operating factors on the frost growth and thermal performance of a flat plate fin-tube heat exchanger under the frosting condition. Journal of Mechanical Science and Technology, 1999, 13, 973-981.	0.4	21
96	Numerical calculation of temperature in the wheel–rail flange contact and implications for lubricant choice. Wear, 2010, 268, 287-293.	3.1	21
97	Quantitative analysis of anti-freezing characteristics of superhydrophobic surfaces according to initial ice nuclei formation time and freezing propagation velocity. International Journal of Heat and Mass Transfer, 2018, 126, 109-117.	4.8	21
98	Orientation effect of a radial heat sink with a chimney for LED downlights. International Journal of Heat and Mass Transfer, 2017, 110, 416-421.	4.8	20
99	Defrosting behavior and performance on vertical plate for surfaces of varying wettability. International Journal of Heat and Mass Transfer, 2018, 120, 481-489.	4.8	20
100	Frost growth behavior according to the cold surface inclination angle. International Journal of Heat and Mass Transfer, 2020, 146, 118841.	4.8	20
101	Recent progress on developing anti-frosting and anti-fouling functional surfaces for air source heat pumps. Energy and Buildings, 2020, 223, 110139.	6.7	20
102	Effects of pass arrangement and optimization of design parameters on the thermal performance of a multi-pass heat exchanger. International Journal of Heat and Fluid Flow, 2008, 29, 352-363.	2.4	19
103	Optimum generation capacities of micro combined heat and power systems in apartment complexes with varying numbers of apartment units. Energy, 2010, 35, 5121-5131.	8.8	19
104	Flow characteristics of dual piezoelectric cooling jets for cooling applications in ultra-slim electronics. International Journal of Heat and Mass Transfer, 2014, 79, 201-211.	4.8	19
105	Local frost behaviors of a scaled-up louvered fin heat exchanger. International Journal of Heat and Mass Transfer, 2015, 89, 1127-1134.	4.8	19
106	Thermal performance and orientation effect of an inclined cross-cut cylindrical heat sink for LED light bulbs. International Journal of Heat and Mass Transfer, 2016, 103, 1371-1377.	4.8	19
107	Thermal performance improvement based on the partial heating position of a heat sink. International Journal of Heat and Mass Transfer, 2018, 124, 752-760.	4.8	19
108	Effect of Natural Gas Composition on the Performance of a CNG Engine. Oil and Gas Science and Technology, 2009, 64, 199-206.	1.4	18

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109	Thermal enhancement of an air-cooled motor with a flow guide. International Journal of Heat and Mass Transfer, 2022, 183, 122228.	4.8	18
110	Robust extended Kalman filter of discrete-time Markovian jump nonlinear system under uncertain noise. Journal of Mechanical Science and Technology, 2008, 22, 1132-1139.	1.5	17
111	Thermo-acoustic random response of temperature-dependent functionally graded material panels. Computational Mechanics, 2010, 46, 377-386.	4.0	17
112	Thermal design of an orthotropic flat fin in fin-and-tube heat exchangers operating in dry and wet environments. International Journal of Heat and Mass Transfer, 2011, 54, 5207-5215.	4.8	17
113	A simple sizing method for combined heat and power units. Energy, 2014, 65, 123-133.	8.8	17
114	Thermal performance of a PCB channel heat sink for LED light bulbs. International Journal of Heat and Mass Transfer, 2015, 89, 1290-1296.	4.8	17
115	Particle Deposition Velocity onto a Wafer or a Photomask in a Laminar Parallel Flow. Journal of the Electrochemical Society, 2010, 157, H692.	2.9	16
116	Thermal and drainage performance of a louvered fin heat exchanger according to heat exchanger inclination angle under frosting and defrosting conditions. International Journal of Heat and Mass Transfer, 2017, 108, 1335-1339.	4.8	16
117	Film flow around a fast rotating roller. International Journal of Heat and Fluid Flow, 2009, 30, 796-803.	2.4	15
118	Frost retardation on fin-tube heat exchangers using mass transfer characteristics with respect to air velocity. International Journal of Heat and Mass Transfer, 2014, 79, 689-693.	4.8	15
119	Effects of psychrometric properties on fin performances of minimum envelope shape of wet fins. Energy Conversion and Management, 2016, 110, 481-493.	9.2	15
120	The Thermoflow Characteristics of an Oscillatory Flow in Offset-Strip Fins. Numerical Heat Transfer; Part A: Applications, 2010, 58, 835-851.	2.1	14
121	A novel analysis for calculating the smallest envelope shape of wet fins with a nonlinear mode of surface transport. Energy, 2012, 44, 527-543.	8.8	14
122	An ease of analysis for optimum design of an annular step fin. International Journal of Heat and Mass Transfer, 2015, 85, 221-227.	4.8	14
123	Cooling performance of a radial heat sink with triangular fins on a circular base at various installation angles. International Journal of Thermal Sciences, 2017, 120, 377-385.	4.9	14
124	Quantitative analysis of frosting characteristics at ultra-low temperatures under forced convection conditions. Energy and Buildings, 2021, 248, 111186.	6.7	14
125	Optimal shape of the multi-passage branching system in a single-phase parallel-flow heat exchanger. International Journal of Refrigeration, 2004, 27, 82-88.	3.4	13
126	Exact and Approximate Analytic Methods to Calculate Maximum Heat Flow in Annular Fin Arrays with a Rectangular Step Profile. International Journal of Thermophysics, 2012, 33, 1314-1333.	2.1	13

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127	Frost behavior of a louvered fin heat exchanger with vortex-generating fins. International Journal of Heat and Mass Transfer, 2017, 114, 590-596.	4.8	13
128	Minimizing thermal interference effects of multiple heat sources for effective cooling of power conversion electronics. Energy Conversion and Management, 2018, 174, 218-226.	9.2	13
129	Performance Tests of High Temperature Superconducting Power Cable Cooling System. IEEE Transactions on Applied Superconductivity, 2004, 14, 1746-1749.	1.7	12
130	Multi-dimensional modeling of CO poisoning effects on proton exchange membrane fuel cells (PEMFCs). Journal of Mechanical Science and Technology, 2008, 22, 991-998.	1.5	12
131	Shape optimization for the minimum volume of pin fins in simultaneous heat and mass transfer environments. Heat and Mass Transfer, 2012, 48, 1333-1343.	2.1	12
132	Critical operating conditions for prevention of frost formation in fin-tube heat exchangers. International Journal of Heat and Mass Transfer, 2014, 76, 279-285.	4.8	12
133	Turbulent heat transfer enhancement in a heat exchanger using asymmetrical outward convex corrugated tubes. Nuclear Engineering and Design, 2019, 350, 78-89.	1.7	12
134	Frost formation from general-low to ultra-low temperatures: A review. International Journal of Heat and Mass Transfer, 2022, 195, 123164.	4.8	12
135	Comparative Numerical Study of Freeze Drying of Solution and Spray-frozen Particles in Trays and Vials. Numerical Heat Transfer; Part A: Applications, 2008, 54, 406-425.	2.1	11
136	Effects of Fuel Injection Parameters on the Morphological Characteristics of Soot Particulates and Exhaust Emissions from a Light-Duty Diesel Engine. Energy & Fuels, 2010, 24, 2875-2882.	5.1	11
137	Combined heat and power unit capacity for high-heat to power ratio buildings without selling excess electricity to the grid. Energy, 2012, 38, 354-361.	8.8	11
138	Optimum placement of top discharge outdoor unit installed near a wall. Energy and Buildings, 2013, 59, 228-235.	6.7	11
139	An appropriate analysis for optimum design of wet fins based on modified 1-D and 2-D approaches. Energy Conversion and Management, 2015, 103, 814-826.	9.2	11
140	Cooling performance and space efficiency improvement based on heat sink arrangement for power conversion electronics. Applied Thermal Engineering, 2020, 164, 114458.	6.0	11
141	Optimal Design of a Parallel-Flow Heat Exchanger Using a Response Surface Methodology. Numerical Heat Transfer; Part A: Applications, 2006, 49, 411-426.	2.1	10
142	Optical investigation of cryogenic frost formation under forced convection. Applied Thermal Engineering, 2022, 202, 117887.	6.0	10
143	STUDY OF COMBINED HEAT TRANSFER IN A THREE-DIMENSIONAL ENCLOSURE WITH A PROTRUDING HEAT SOURCE. Numerical Heat Transfer; Part A: Applications, 1997, 32, 733-747.	2.1	9
144	EFFECT OF GEOMETRIC PARAMETERS ON VENTILATION PERFORMANCE IN A DRY ROOM. Drying Technology, 2002, 20, 1445-1461.	3.1	9

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145	An investigation of local heat transfer characteristics in a ventilated disc brake with helically fluted surfaces. Journal of Mechanical Science and Technology, 2007, 21, 2178-2187.	1.5	9
146	Investigation of coolant flow distribution and the effects of cavitation on water pump performance in an automotive cooling system. International Journal of Energy Research, 2009, 33, 224-234.	4.5	9
147	Finite element simulation of crack propagation based on phase field theory. Journal of Mechanical Science and Technology, 2013, 27, 3073-3085.	1.5	9
148	Modeling of frost growth and fog generation at ultra-low temperatures. International Journal of Heat and Mass Transfer, 2021, 166, 120741.	4.8	9
149	Frost layer growth behavior on ultra-low temperature surface with a superhydrophobic coating. International Communications in Heat and Mass Transfer, 2021, 128, 105641.	5.6	9
150	Thermal Buckling and Flutter Behavior of Shape Memory Alloy Hybrid Composite Shells. Journal of Aircraft, 2009, 46, 895-902.	2.4	8
151	Optimum configurations of vertical fins under condensation of saturated vapor. International Journal of Refrigeration, 2011, 34, 1048-1056.	3.4	8
152	Optimized Envelope Shape of Wet Fins for Nonlinear Heat and Mass Transport. Journal of Thermophysics and Heat Transfer, 2012, 26, 357-366.	1.6	8
153	Collection efficiency of round-nozzle impactors with horizontal annular inlet. Journal of Aerosol Science, 2014, 74, 63-69.	3.8	8
154	MODIFIED MACROSCOPIC TURBULENCE MODELINGFOR THE TUBE WITH CHANNEL GEOMETRY INPOROUS MEDIA. Numerical Heat Transfer; Part A: Applications, 2003, 43, 659-668.	2.1	7
155	Conditional Moment Closure Modeling for a Three-Dimensional Turbulent Non-premixed Syngas Flame with a Cooling Wall. Energy & Fuels, 2008, 22, 3639-3648.	5.1	7
156	Numerical simulation of structure and no formation of turbulent lean-premixed flames in gas turbine conditions. Journal of Mechanical Science and Technology, 2009, 23, 3424-3435.	1.5	7
157	The effect of arc length on the least-volume fin under sensible and latent heat loads. International Journal of Heat and Mass Transfer, 2013, 63, 414-424.	4.8	7
158	Deposition of Charged Particles on a Flat Plate in Parallel Flow in the Presence of an Electric Field. IEEE Transactions on Semiconductor Manufacturing, 2014, 27, 287-293.	1.7	7
159	Forced Convection Across a Locally Heated Square Cylinder Near a Wall. Numerical Heat Transfer; Part A: Applications, 2014, 65, 972-986.	2.1	7
160	Characteristics of condensation formation on the surfaces of air conditioning indoor units. Applied Thermal Engineering, 2015, 91, 345-353.	6.0	7
161	Power optimization for defrosting heaters in household refrigerators to reduce energy consumption. Energy Conversion and Management, 2021, 237, 114127.	9.2	7
162	The structural variation of the gas diffusion layer and a performance evaluation of polymer electrolyte fuel cells as a function of clamping pressure. Journal of Mechanical Science and Technology, 2008, 22, 565-574.	1.5	6

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163	Numerical Study on the Characteristics of Vaporization, Ignition, and Turbulent Combustion Processes in Dimethyl Ether (DME)-Fueled Engine Conditions. Energy & Fuels, 2008, 22, 3649-3660.	5.1	6
164	3-D Optimal Design of Induction Motor Used in High-Pressure Scroll Compressor. IEEE Transactions on Magnetics, 2009, 45, 2076-2084.	2.1	6
165	Investigation of influence of constraints with radius links on locomotive axle load distribution and wheelset steering ability. Journal of Mechanical Science and Technology, 2013, 27, 1903-1913.	1.5	6
166	Particle Deposition Velocity Onto EUVL Masks in Vertical Airflow. IEEE Transactions on Semiconductor Manufacturing, 2014, 27, 417-421.	1.7	6
167	Macroscopic analysis of characteristic water transport phenomena in polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2008, 33, 2073-2086.	7.1	5
168	Experimental study on heat transfer characteristics of water-spray-bed heat exchanger. Journal of Mechanical Science and Technology, 2015, 29, 2243-2247.	1.5	5
169	Establishment of Modified-One-Dimensional and Two-Dimensional Models for Two-Directional Heat Conduction in a Wet Fin Assembly. Heat Transfer Engineering, 2017, 38, 190-205.	1.9	4
170	Guaranteed Performance Robust Kalman Filter for Continuous-Time Markovian Jump Nonlinear System with Uncertain Noise. Mathematical Problems in Engineering, 2008, 2008, 1-12.	1.1	3
171	Switching Controller Design for a Class of Markovian Jump Nonlinear Systems Using Stochastic Small-Gain Theorem. Advances in Difference Equations, 2009, 2009, 1-23.	3.5	3
172	Numerical Study on Spray Combustion Processes inn-Heptane and Dimethyl Ether Fueled Diesel Engines. Energy & Fuels, 2009, 23, 4917-4930.	5.1	3
173	Unique Analysis for Cascaded Rectangular–Triangular Fins with Convection–Radiation Transport. Journal of Thermophysics and Heat Transfer, 2013, 27, 101-110.	1.6	3
174	Prediction of particle deposition velocity onto an extreme ultraviolet lithography mask in parallel airflow considering electrophoresis. International Journal of Modern Physics C, 2014, 25, 1450010.	1.7	3
175	Gaussian diffusion sphere model to predict deposition velocities under the combined effects of electrophoresis and thermophoresis. Journal of the Korean Physical Society, 2014, 64, 832-839.	0.7	3
176	Local Behavior of Deposition Velocity onto a Flat Plate in Horizontal Airflow under the Influence of Thermophoresis. Aerosol Science and Technology, 2015, 49, 920-927.	3.1	3
177	NUMERICAL ANALYSIS OF MOISTURE VENTILATION IN A LITHIUM ION BATTERY MANUFACTURING DRY ROOM. Drying Technology, 2001, 19, 455-470.	3.1	2
178	Effects of Surface Treatment on Frost Formation and Defrosting. , 2011, , .		2
179	Decomposition method for thermal design analysis of vertical straight fins under condensation of quiescent and flowing steam. Heat and Mass Transfer, 2011, 47, 1261-1274.	2.1	2
180	Prevention of dew condensation on the case surfaces of ceiling-cassette indoor air conditioning units. Applied Thermal Engineering, 2018, 133, 555-559.	6.0	2

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