

# Kwan-Soo Lee

## List of Publications by Citations

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194  
papers

4,503  
citations

38  
h-index

55  
g-index

200  
ext. papers

5,250  
ext. citations

4.5  
avg, IF

6.12  
L-index

#	Paper	IF	Citations
194	A one-dimensional model for frost formation on a cold flat surface. <i>International Journal of Heat and Mass Transfer</i> , <b>1997</b> , 40, 4359-4365	4.9	175
193	Influence of design parameters on the heat transfer and flow friction characteristics of the heat exchanger with slit fins. <i>International Journal of Heat and Mass Transfer</i> , <b>2000</b> , 43, 2529-2539	4.9	152
192	Effect of surface treatments on the frosting/defrosting behavior of a fin-tube heat exchanger. <i>International Journal of Refrigeration</i> , <b>2002</b> , 25, 1047-1053	3.8	105
191	Prediction of the frost formation on a cold flat surface. <i>International Journal of Heat and Mass Transfer</i> , <b>2003</b> , 46, 3789-3796	4.9	103
190	Optimum design of a radial heat sink under natural convection. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 2499-2505	4.9	100
189	Optimum design of a radial heat sink with a fin-height profile for high-power LED lighting applications. <i>Applied Energy</i> , <b>2014</b> , 116, 260-268	10.7	96
188	Multidisciplinary optimization of a pin-fin radial heat sink for LED lighting applications. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 515-521	4.9	91
187	Natural convection around a radial heat sink. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 2935-2938	4.9	84
186	Frosting characteristics on hydrophobic and superhydrophobic surfaces: A review. <i>Energy Conversion and Management</i> , <b>2017</b> , 138, 1-11	10.6	83
185	Transport phenomena in the thin-film region of a micro-channel. <i>International Journal of Heat and Mass Transfer</i> , <b>2003</b> , 46, 2381-2388	4.9	78
184	Correlations and optimization of a heat exchanger with offset-strip fins. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 2073-2079	4.9	77
183	Dimensionless correlations of frost properties on a cold plate. <i>International Journal of Refrigeration</i> , <b>2004</b> , 27, 89-96	3.8	73
182	Frosting and defrosting characteristics of a fin according to surface contact angle. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 2758-2764	4.9	68
181	Modeling for predicting frosting behavior of a fin-tube heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , <b>2006</b> , 49, 1472-1479	4.9	65
180	The orientation effect for cylindrical heat sinks with application to LED light bulbs. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 71, 496-502	4.9	64
179	Optimization of a chimney design for cooling efficiency of a radial heat sink in a LED downlight. <i>Energy Conversion and Management</i> , <b>2016</b> , 114, 180-187	10.6	60
178	A model on the basis of analytics for computing maximum heat transfer in porous fins. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 7611-7622	4.9	60

177	Frosting and defrosting characteristics of surface-treated louvered-fin heat exchangers: Effects of fin pitch and experimental conditions. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 60, 505-511	4.9	58
176	Investigation of heat transfer characteristics on various kinds of fin-and-tube heat exchangers with interrupted surfaces. <i>International Journal of Heat and Mass Transfer</i> , <b>1999</b> , 42, 2375-2385	4.9	52
175	Fin spacing optimization of a fin-tube heat exchanger under frosting conditions. <i>International Journal of Heat and Mass Transfer</i> , <b>2006</b> , 49, 2619-2625	4.9	51
174	Analysis of heat transfer and pressure drop characteristics in an offset strip fin heat exchanger. <i>International Communications in Heat and Mass Transfer</i> , <b>2009</b> , 36, 259-263	5.8	50
173	Direct growth of cerium oxide nanorods on diverse substrates for superhydrophobicity and corrosion resistance. <i>Applied Surface Science</i> , <b>2015</b> , 340, 96-101	6.7	48
172	Frosting model for predicting macroscopic and local frost behaviors on a cold plate. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 82, 135-142	4.9	46
171	Frost formation on a cold surface under turbulent flow. <i>International Journal of Refrigeration</i> , <b>2006</b> , 29, 164-169	3.8	46
170	Modeling of frosting behavior on a cold plate. <i>International Journal of Refrigeration</i> , <b>2005</b> , 28, 396-402	3.8	45
169	Optimal shape and arrangement of staggered pins in the channel of a plate heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , <b>2001</b> , 44, 3223-3231	4.9	44
168	NUMERICAL SHAPE OPTIMIZATION FOR HIGH PERFORMANCE OF A HEAT SINK WITH PIN-FINS. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2004</b> , 46, 909-927	2.3	43
167	Feasibility study on a novel cooling technique using a phase change material in an automotive engine. <i>Energy</i> , <b>2010</b> , 35, 478-484	7.9	42
166	Characteristics and performance evaluation of surface-treated louvered-fin heat exchangers under frosting and wet conditions. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 6676-6681	4.9	41
165	Effect of radiation in a radial heat sink under natural convection. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 505-509	4.9	41
164	Control system for maximum use of adhesive forces of a railway vehicle in a tractive mode. <i>Mechanical Systems and Signal Processing</i> , <b>2008</b> , 22, 709-720	7.8	41
163	Flow and heat transfer characteristics of the evaporating extended meniscus in a micro-capillary channel. <i>International Journal of Heat and Mass Transfer</i> , <b>2003</b> , 46, 4587-4594	4.9	41
162	Friction and Colburn factor correlations and shape optimization of chevron-type plate heat exchangers. <i>Applied Thermal Engineering</i> , <b>2015</b> , 89, 62-69	5.8	40
161	Performance prediction of a fin-and-tube heat exchanger considering air-flow reduction due to the frost accumulation. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 67, 225-233	4.9	39
160	Numerical investigation and optimization of the thermal performance of a brushless DC motor. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 1589-1599	4.9	39

159	Active coolant control strategies in automotive engines. <i>International Journal of Automotive Technology</i> , <b>2010</b> , 11, 767-772	1.6	39
158	A unified analysis of filling and solidification in casting with natural convection. <i>International Journal of Heat and Mass Transfer</i> , <b>2001</b> , 44, 1507-1515	4.9	39
157	Thermal performance improvement of a radial heat sink with a hollow cylinder for LED downlight applications. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 89, 1184-1189	4.9	38
156	Analytic solution for heat transfer of wet fins on account of all nonlinearity effects. <i>Energy</i> , <b>2012</b> , 41, 354-367	7.9	38
155	Fourier and non-Fourier heat conduction analysis in the absorber plates of a flat-plate solar collector. <i>Solar Energy</i> , <b>2012</b> , 86, 3030-3039	6.8	37
154	Dimensionless correlations of frost properties on a cold cylinder surface. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 3946-3952	4.9	37
153	Determination method of defrosting start-time based on temperature measurements. <i>Applied Energy</i> , <b>2015</b> , 146, 263-269	10.7	36
152	Exact analysis for minimum shape of porous fins under convection and radiation heat exchange with surrounding. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 81, 439-448	4.9	36
151	Flow characteristics and thermal performance in chevron type plate heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 78, 699-706	4.9	36
150	A study of spray strategies on improvement of engine performance and emissions reduction characteristics in a DME fueled diesel engine. <i>Energy</i> , <b>2011</b> , 36, 1802-1813	7.9	35
149	Optimization of a staggered pin-fin for a radial heat sink under free convection. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 87, 184-188	4.9	34
148	OPTIMUM DESIGN OF PLATE HEAT EXCHANGER WITH STAGGERED PIN ARRAYS. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2004</b> , 45, 347-361	2.3	34
147	Correlation of cross-cut cylindrical heat sink to improve the orientation effect of LED light bulbs. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 84, 821-826	4.9	33
146	Optimal design of a double pipe heat exchanger based on the outward helically corrugated tube. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 135, 706-716	4.9	33
145	A novel louvered fin design to enhance thermal and drainage performances during periodic frosting/defrosting conditions. <i>Energy Conversion and Management</i> , <b>2016</b> , 110, 494-500	10.6	32
144	Thermal performance of microchannel heat exchangers according to the design parameters under the frosting conditions. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 71, 626-632	4.9	32
143	Supersonic Flutter of Functionally Grated Panels Subject to Acoustic and Thermal Loads. <i>Journal of Aircraft</i> , <b>2009</b> , 46, 593-600	1.6	31
142	A proper analytical analysis of annular step porous fins for determining maximum heat transfer. <i>Energy Conversion and Management</i> , <b>2016</b> , 110, 469-480	10.6	29

141	Experimental investigation of frost retardation for superhydrophobic surface using a luminance meter. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 87, 491-496	4.9	28
140	Local frosting behavior of a plated-fin and tube heat exchanger according to the refrigerant flow direction and surface treatment. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 64, 751-758	4.9	27
139	Fabrication of three-dimensional metal-graphene network phase change composite for high thermal conductivity and suppressed subcooling phenomena. <i>Energy Conversion and Management</i> , <b>2017</b> , 149, 608-615	10.6	27
138	Generalized heat-transfer and fluid-flow correlations for corrugated louvered fins. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 83, 604-612	4.9	27
137	A study on the linear compressor characteristics of the Stirling cryocooler. <i>Cryogenics</i> , <b>2002</b> , 42, 427-432	1.8	27
136	Correlations and shape optimization in a channel with aligned dimples and protrusions. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 64, 444-451	4.9	26
135	Analytical tools for calculating the maximum heat transfer of annular stepped fins with internal heat generation and radiation effects. <i>Energy</i> , <b>2014</b> , 76, 733-748	7.9	25
134	Refrigerant circuitry design of fin-and-tube condenser based on entropy generation minimization. <i>International Journal of Refrigeration</i> , <b>2012</b> , 35, 1430-1438	3.8	25
133	Determination of airside heat transfer coefficient on wire-on-tube type heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , <b>2001</b> , 44, 1767-1776	4.9	25
132	Heat removal by aluminum-foam heat sinks in a multi-air jet impingement. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2005</b> , 28, 142-148		24
131	Optimization of the design factors for thermal performance of a parallel-flow heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , <b>2002</b> , 45, 4773-4780	4.9	24
130	Heat transfer improvement of a wet fin under transient response with a unique design arrangement aspect. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 127, 1239-1251	4.9	24
129	Stochastic approach to the anti-freezing behaviors of superhydrophobic surfaces. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 106, 841-846	4.9	23
128	Optimum hub height of a wind turbine for maximizing annual net profit. <i>Energy Conversion and Management</i> , <b>2015</b> , 100, 90-96	10.6	23
127	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. <i>Fuel Processing Technology</i> , <b>2011</b> , 92, 1756-1763	7.2	23
126	Numerical modeling of frost growth and densification on a cold plate using frost formation resistance. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 115, 1055-1063	4.9	22
125	A non-Fourier analysis for transmitting heat in fins with internal heat generation. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 64, 1153-1162	4.9	22
124	Effects of stacked condensers in a high-rise apartment building. <i>Energy</i> , <b>2005</b> , 30, 968-981	7.9	22

123	PRIMARY AND SECONDARY INSTABILITIES IN A GLASS-MELTING SURFACE. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>1999</b> , 36, 309-325	2.3	22
122	Effect of air-gap fans on cooling of windings in a large-capacity, high-speed induction motor. <i>Applied Thermal Engineering</i> , <b>2016</b> , 100, 658-667	5.8	21
121	Frost behavior on a fin considering the heat conduction of heat exchanger fins. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 2581-2588	4.9	21
120	Investigation of the Swirl Effect on Diffusion Flame in a Direct-Injection (DI) Diesel Engine Using Image Processing Technology. <i>Energy &amp; Fuels</i> , <b>2008</b> , 22, 3687-3694	4.1	21
119	Numerical investigation of the air-gap flow heating phenomena in large-capacity induction motors. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 110, 746-752	4.9	20
118	Microscopic observation of frost behaviors at the early stage of frost formation on hydrophobic surfaces. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 97, 861-867	4.9	20
117	Frosting behaviors and thermal performance of louvered fins with unequal louver pitch. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 95, 499-505	4.9	20
116	Facile Fabrication of Superomniphobic Polymer Hierarchical Structures for Directional Droplet Movement. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 9213-9220	9.5	19
115	Modeling of frost layer growth considering frost porosity. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 126, 980-988	4.9	19
114	Optimal design of a corrugated louvered fin. <i>Applied Thermal Engineering</i> , <b>2014</b> , 68, 76-79	5.8	19
113	Numerical calculation of temperature in the wheel-rail flange contact and implications for lubricant choice. <i>Wear</i> , <b>2010</b> , 268, 287-293	3.5	19
112	The behavior of frost layer growth under conditions favorable for desublimation. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 120, 259-266	4.9	18
111	Frosting and defrosting behavior of slippery surfaces and utilization of mechanical vibration to enhance defrosting performance. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 125, 858-865	4.9	18
110	Aero-thermo-mechanical characteristics of imperfect shape memory alloy hybrid composite panels. <i>Journal of Sound and Vibration</i> , <b>2009</b> , 325, 583-596	3.9	18
109	Characteristics of frost formation on two-dimensional fins and its empirical correlations. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 2670-2675	4.9	18
108	Effects of pass arrangement and optimization of design parameters on the thermal performance of a multi-pass heat exchanger. <i>International Journal of Heat and Fluid Flow</i> , <b>2008</b> , 29, 352-363	2.4	18
107	Differential Transform Method for Thermal Analysis of Exponential Fins under Sensible and Latent Heat Transfer. <i>Procedia Engineering</i> , <b>2015</b> , 127, 287-294		17
106	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. <i>Journal of Mechanical Science and Technology</i> , <b>1999</b> , 13, 973-981		17

105	A simple sizing method for combined heat and power units. <i>Energy</i> , <b>2014</b> , 65, 123-133	7.9	16
104	Particle Deposition Velocity onto a Wafer or a Photomask in a Laminar Parallel Flow. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, H692	3.9	16
103	Optimum generation capacities of micro combined heat and power systems in apartment complexes with varying numbers of apartment units. <i>Energy</i> , <b>2010</b> , 35, 5121-5131	7.9	16
102	Modeling of Adhesion for Railway Vehicles. <i>Journal of Adhesion Science and Technology</i> , <b>2008</b> , 22, 1017-1034	10.34	16
101	Thermal performance and orientation effect of an inclined cross-cut cylindrical heat sink for LED light bulbs. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 103, 1371-1377	4.9	16
100	Thermal performance of a PCB channel heat sink for LED light bulbs. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 89, 1290-1296	4.9	15
99	Flow characteristics of dual piezoelectric cooling jets for cooling applications in ultra-slim electronics. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 79, 201-211	4.9	15
98	Frost layer growth behavior under cryogenic conditions. <i>Applied Thermal Engineering</i> , <b>2019</b> , 163, 1143335.8	5.8	14
97	Thermal performance improvement based on the partial heating position of a heat sink. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 124, 752-760	4.9	14
96	Fabrication of micro-patterned aluminum surfaces for low ice adhesion strength. <i>Applied Surface Science</i> , <b>2018</b> , 440, 643-650	6.7	14
95	Adaptive defrost methods for improving defrosting efficiency of household refrigerator. <i>Energy Conversion and Management</i> , <b>2018</b> , 157, 511-516	10.6	14
94	An ease of analysis for optimum design of an annular step fin. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 85, 221-227	4.9	14
93	Thermo-acoustic random response of temperature-dependent functionally graded material panels. <i>Computational Mechanics</i> , <b>2010</b> , 46, 377-386	4	14
92	Robust extended Kalman filter of discrete-time Markovian jump nonlinear system under uncertain noise. <i>Journal of Mechanical Science and Technology</i> , <b>2008</b> , 22, 1132-1139	1.6	14
91	Orientation effect of a radial heat sink with a chimney for LED downlights. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 110, 416-421	4.9	13
90	Frost retardation on fin-tube heat exchangers using mass transfer characteristics with respect to air velocity. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 79, 689-693	4.9	13
89	A novel analysis for calculating the smallest envelope shape of wet fins with a nonlinear mode of surface transport. <i>Energy</i> , <b>2012</b> , 44, 527-543	7.9	13
88	Thermal design of an orthotropic flat fin in fin-and-tube heat exchangers operating in dry and wet environments. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 5207-5215	4.9	13

87	Effect of Natural Gas Composition on the Performance of a CNG Engine. <i>Oil and Gas Science and Technology</i> , <b>2009</b> , 64, 199-206	1.9	13
86	Thermal and drainage performance of a louvered fin heat exchanger according to heat exchanger inclination angle under frosting and defrosting conditions. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 108, 1335-1339	4.9	12
85	Local frost behaviors of a scaled-up louvered fin heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 89, 1127-1134	4.9	12
84	Defrosting behavior and performance on vertical plate for surfaces of varying wettability. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 120, 481-489	4.9	12
83	Cooling performance of a radial heat sink with triangular fins on a circular base at various installation angles. <i>International Journal of Thermal Sciences</i> , <b>2017</b> , 120, 377-385	4.1	12
82	The ThermoFlow Characteristics of an Oscillatory Flow in Offset-Strip Fins. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2010</b> , 58, 835-851	2.3	12
81	Optimal shape of the multi-passage branching system in a single-phase parallel-flow heat exchanger. <i>International Journal of Refrigeration</i> , <b>2004</b> , 27, 82-88	3.8	12
80	Enhanced heat transfer performance for multi-tube heat exchangers with various tube arrangements. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 168, 120905	4.9	12
79	An appropriate analysis for optimum design of wet fins based on modified 1-D and 2-D approaches. <i>Energy Conversion and Management</i> , <b>2015</b> , 103, 814-826	10.6	11
78	Effects of psychrometric properties on fin performances of minimum envelope shape of wet fins. <i>Energy Conversion and Management</i> , <b>2016</b> , 110, 481-493	10.6	11
77	Shape optimization for the minimum volume of pin fins in simultaneous heat and mass transfer environments. <i>Heat and Mass Transfer</i> , <b>2012</b> , 48, 1333-1343	2.2	11
76	Comparative Numerical Study of Freeze Drying of Solution and Spray-frozen Particles in Trays and Vials. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2008</b> , 54, 406-425	2.3	11
75	Multi-dimensional modeling of CO poisoning effects on proton exchange membrane fuel cells (PEMFCs). <i>Journal of Mechanical Science and Technology</i> , <b>2008</b> , 22, 991-998	1.6	11
74	Quantitative analysis of anti-freezing characteristics of superhydrophobic surfaces according to initial ice nuclei formation time and freezing propagation velocity. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 126, 109-117	4.9	11
73	Combined heat and power unit capacity for high-heat to power ratio buildings without selling excess electricity to the grid. <i>Energy</i> , <b>2012</b> , 38, 354-361	7.9	10
72	Optimum placement of top discharge outdoor unit installed near a wall. <i>Energy and Buildings</i> , <b>2013</b> , 59, 228-235	7	10
71	Exact and Approximate Analytic Methods to Calculate Maximum Heat Flow in Annular Fin Arrays with a Rectangular Step Profile. <i>International Journal of Thermophysics</i> , <b>2012</b> , 33, 1314-1333	2.1	10
70	Performance tests of high temperature superconducting power cable cooling system. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2004</b> , 14, 1746-1749	1.8	10



69	Minimizing thermal interference effects of multiple heat sources for effective cooling of power conversion electronics. <i>Energy Conversion and Management</i> , <b>2018</b> , 174, 218-226	10.6	9
68	Effects of Fuel Injection Parameters on the Morphological Characteristics of Soot Particulates and Exhaust Emissions from a Light-Duty Diesel Engine. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 2875-2882	4.1	9
67	STUDY OF COMBINED HEAT TRANSFER IN A THREE-DIMENSIONAL ENCLOSURE WITH A PROTRUDING HEAT SOURCE. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>1997</b> , 32, 733-747	2.3	9
66	Critical operating conditions for prevention of frost formation in fin-tube heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 76, 279-285	4.9	8
65	Film flow around a fast rotating roller. <i>International Journal of Heat and Fluid Flow</i> , <b>2009</b> , 30, 796-803	2.4	8
64	Optimal Design of a Parallel-Flow Heat Exchanger Using a Response Surface Methodology. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2006</b> , 49, 411-426	2.3	8
63	Recent progress on developing anti-frosting and anti-fouling functional surfaces for air source heat pumps. <i>Energy and Buildings</i> , <b>2020</b> , 223, 110139	7	8
62	Thermal nexus model for the thermal characteristic analysis of an open-type air-cooled induction motor. <i>Applied Thermal Engineering</i> , <b>2017</b> , 112, 1108-1116	5.8	7
61	Turbulent heat transfer enhancement in a heat exchanger using asymmetrical outward convex corrugated tubes. <i>Nuclear Engineering and Design</i> , <b>2019</b> , 350, 78-89	1.8	7
60	Forced Convection Across a Locally Heated Square Cylinder Near a Wall. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 65, 972-986	2.3	7
59	Finite element simulation of crack propagation based on phase field theory. <i>Journal of Mechanical Science and Technology</i> , <b>2013</b> , 27, 3073-3085	1.6	7
58	The effect of arc length on the least-volume fin under sensible and latent heat loads. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 63, 414-424	4.9	7
57	Deposition of Charged Particles on a Flat Plate in Parallel Flow in the Presence of an Electric Field. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2014</b> , 27, 287-293	2.6	7
56	Collection efficiency of round-nozzle impactors with horizontal annular inlet. <i>Journal of Aerosol Science</i> , <b>2014</b> , 74, 63-69	4.3	7
55	Optimum configurations of vertical fins under condensation of saturated vapor. <i>International Journal of Refrigeration</i> , <b>2011</b> , 34, 1048-1056	3.8	7
54	Optimized Envelope Shape of Wet Fins for Nonlinear Heat and Mass Transport. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2012</b> , 26, 357-366	1.3	7
53	MODIFIED MACROSCOPIC TURBULENCE MODELING FOR THE TUBE WITH CHANNEL GEOMETRY IN POROUS MEDIA. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2003</b> , 43, 659-668	2.3	7
52	Frost modeling under cryogenic conditions. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 161, 120250	4.9	7

51	Frost growth mechanism and its behavior under ultra-low temperature conditions. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 169, 120941	4.9	7
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