

Kwan-Soo Lee

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Optical investigation of cryogenic frost formation under forced convection. <i>Applied Thermal Engineering</i> , 2022 , 202, 117887	5.8	2
193	Guide Vane for Thermal Enhancement of a LED Heat Sink. <i>Energies</i> , 2022 , 15, 2488	3.1	0
192	Thermal enhancement of an air-cooled motor with a flow guide. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 122228	4.9	1
191	Frost layer growth behavior on ultra-low temperature surface with a superhydrophobic coating. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 128, 105641	5.8	2
190	Frost growth mechanism and its behavior under ultra-low temperature conditions. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 169, 120941	4.9	7
189	Enhanced heat transfer performance for multi-tube heat exchangers with various tube arrangements. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 168, 120905	4.9	12
188	Power optimization for defrosting heaters in household refrigerators to reduce energy consumption. <i>Energy Conversion and Management</i> , 2021 , 237, 114127	10.6	1
187	Modeling of frost growth and fog generation at ultra-low temperatures. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 166, 120741	4.9	2
186	Quantitative analysis of frosting characteristics at ultra-low temperatures under forced convection conditions. <i>Energy and Buildings</i> , 2021 , 248, 111186	7	2
185	Recent progress on developing anti-frosting and anti-fouling functional surfaces for air source heat pumps. <i>Energy and Buildings</i> , 2020 , 223, 110139	7	8
184	Frost modeling under cryogenic conditions. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 161, 120250	4.9	7
183	Cooling performance and space efficiency improvement based on heat sink arrangement for power conversion electronics. <i>Applied Thermal Engineering</i> , 2020 , 164, 114458	5.8	5
182	Frost growth behavior according to the cold surface inclination angle. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 146, 118841	4.9	7
181	Frost layer growth behavior under cryogenic conditions. <i>Applied Thermal Engineering</i> , 2019 , 163, 114333	5.8	14
180	Turbulent heat transfer enhancement in a heat exchanger using asymmetrical outward convex corrugated tubes. <i>Nuclear Engineering and Design</i> , 2019 , 350, 78-89	1.8	7
179	Optimal design of a double pipe heat exchanger based on the outward helically corrugated tube. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 135, 706-716	4.9	33
178	Thermal performance improvement based on the partial heating position of a heat sink. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 124, 752-760	4.9	14

177	Fabrication of micro-patterned aluminum surfaces for low ice adhesion strength. <i>Applied Surface Science</i> , 2018 , 440, 643-650	6.7	14
176	Defrosting behavior and performance on vertical plate for surfaces of varying wettability. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 120, 481-489	4.9	12
175	The behavior of frost layer growth under conditions favorable for desublimation. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 120, 259-266	4.9	18
174	Adaptive defrost methods for improving defrosting efficiency of household refrigerator. <i>Energy Conversion and Management</i> , 2018 , 157, 511-516	10.6	14
173	Prevention of dew condensation on the case surfaces of ceiling-cassette indoor air conditioning units. <i>Applied Thermal Engineering</i> , 2018 , 133, 555-559	5.8	2
172	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> , 2018 , 125, 858-865	4.9	18
171	Minimizing thermal interference effects of multiple heat sources for effective cooling of power conversion electronics. <i>Energy Conversion and Management</i> , 2018 , 174, 218-226	10.6	9
170	Modeling of frost layer growth considering frost porosity. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 126, 980-988	4.9	19
169	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> , 2018 , 127, 1239-1251	4.9	24
168	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> , 2018 , 126, 109-117	4.9	11
167	Establishment of Modified-One-Dimensional and Two-Dimensional Models for Two-Directional Heat Conduction in a Wet Fin Assembly. <i>Heat Transfer Engineering</i> , 2017 , 38, 190-205	1.7	4
166	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> , 2017 , 108, 1335-1339	4.9	12
165	Facile Fabrication of Superomniphobic Polymer Hierarchical Structures for Directional Droplet Movement. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9213-9220	9.5	19
164	Frosting characteristics on hydrophobic and superhydrophobic surfaces: A review. <i>Energy Conversion and Management</i> , 2017 , 138, 1-11	10.6	83
163	Numerical investigation of the air-gap flow heating phenomena in large-capacity induction motors. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 110, 746-752	4.9	20
162	Orientation effect of a radial heat sink with a chimney for LED downlights. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 110, 416-421	4.9	13
161	Thermal nexus model for the thermal characteristic analysis of an open-type air-cooled induction motor. <i>Applied Thermal Engineering</i> , 2017 , 112, 1108-1116	5.8	7
160	Fabrication of three-dimensional metal-graphene network phase change composite for high thermal conductivity and suppressed subcooling phenomena. <i>Energy Conversion and Management</i> , 2017 , 149, 608-615	10.6	27

159	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> , 2017 , 120, 377-385	4.1	12
158	Frost behavior of a louvered fin heat exchanger with vortex-generating fins. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 114, 590-596	4.9	5
157	Stochastic approach to the anti-freezing behaviors of superhydrophobic surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 106, 841-846	4.9	23
156	Numerical modeling of frost growth and densification on a cold plate using frost formation resistance. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 1055-1063	4.9	22
155	Microscopic observation of frost behaviors at the early stage of frost formation on hydrophobic surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 97, 861-867	4.9	20
154	Effects of psychrometric properties on fin performances of minimum envelope shape of wet fins. <i>Energy Conversion and Management</i> , 2016 , 110, 481-493	10.6	11
153	A novel louvered fin design to enhance thermal and drainage performances during periodic frosting/defrosting conditions. <i>Energy Conversion and Management</i> , 2016 , 110, 494-500	10.6	32
152	Optimization of a chimney design for cooling efficiency of a radial heat sink in a LED downlight. <i>Energy Conversion and Management</i> , 2016 , 114, 180-187	10.6	60
151	Effect of air-gap fans on cooling of windings in a large-capacity, high-speed induction motor. <i>Applied Thermal Engineering</i> , 2016 , 100, 658-667	5.8	21
150	A proper analytical analysis of annular step porous fins for determining maximum heat transfer. <i>Energy Conversion and Management</i> , 2016 , 110, 469-480	10.6	29
149	Frosting behaviors and thermal performance of louvered fins with unequal louver pitch. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 95, 499-505	4.9	20
148	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> , 2016 , 103, 1371-1377	4.9	16
147	Direct growth of cerium oxide nanorods on diverse substrates for superhydrophobicity and corrosion resistance. <i>Applied Surface Science</i> , 2015 , 340, 96-101	6.7	48
146	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> , 2015 , 84, 821-826	4.9	33
145	Local frost behaviors of a scaled-up louvered fin heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 89, 1127-1134	4.9	12
144	Thermal performance of a PCB channel heat sink for LED light bulbs. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 89, 1290-1296	4.9	15
143	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> , 2015 , 89, 1184-1189	4.9	38
142	Determination method of defrosting start-time based on temperature measurements. <i>Applied Energy</i> , 2015 , 146, 263-269	10.7	36

141	Experimental investigation of frost retardation for superhydrophobic surface using a luminance meter. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 87, 491-496	4.9	28
140	Optimization of a staggered pin-fin for a radial heat sink under free convection. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 87, 184-188	4.9	34
139	Characteristics of condensation formation on the surfaces of air conditioning indoor units. <i>Applied Thermal Engineering</i> , 2015 , 91, 345-353	5.8	6
138	An appropriate analysis for optimum design of wet fins based on modified 1-D and 2-D approaches. <i>Energy Conversion and Management</i> , 2015 , 103, 814-826	10.6	11
137	Frosting model for predicting macroscopic and local frost behaviors on a cold plate. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 82, 135-142	4.9	46
136	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> , 2015 , 81, 439-448	4.9	36
135	Investigation of radiative and convective heat transfer in storage vaults for improving space efficiency. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 80, 301-308	4.9	1
134	Optimum Design for Noise Reduction of a Two-Bladed Propeller Fan. <i>Acta Acustica United With Acustica</i> , 2015 , 101, 920-927	1.5	
133	Experimental study on heat transfer characteristics of water-spray-bed heat exchanger. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 2243-2247	1.6	3
132	Friction and Colburn factor correlations and shape optimization of chevron-type plate heat exchangers. <i>Applied Thermal Engineering</i> , 2015 , 89, 62-69	5.8	40
131	Optimum hub height of a wind turbine for maximizing annual net profit. <i>Energy Conversion and Management</i> , 2015 , 100, 90-96	10.6	23
130	Local Behavior of Deposition Velocity onto a Flat Plate in Horizontal Airflow under the Influence of Thermophoresis. <i>Aerosol Science and Technology</i> , 2015 , 49, 920-927	3.4	2
129	Differential Transform Method for Thermal Analysis of Exponential Fins under Sensible and Latent Heat Transfer. <i>Procedia Engineering</i> , 2015 , 127, 287-294		17
128	An ease of analysis for optimum design of an annular step fin. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 85, 221-227	4.9	14
127	Generalized heat-transfer and fluid-flow correlations for corrugated louvered fins. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 83, 604-612	4.9	27
126	Optimal design of a corrugated louvered fin. <i>Applied Thermal Engineering</i> , 2014 , 68, 76-79	5.8	19
125	Thermal performance of microchannel heat exchangers according to the design parameters under the frosting conditions. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 71, 626-632	4.9	32
124	Optimum design of a radial heat sink with a fin-height profile for high-power LED lighting applications. <i>Applied Energy</i> , 2014 , 116, 260-268	10.7	96

123	The orientation effect for cylindrical heat sinks with application to LED light bulbs. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 71, 496-502	4.9	64
122	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> , 2014 , 79, 689-693	4.9	13
121	Flow characteristics and thermal performance in chevron type plate heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 78, 699-706	4.9	36
120	Forced Convection Across a Locally Heated Square Cylinder Near a Wall. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014 , 65, 972-986	2.3	7
119	Gaussian diffusion sphere model to predict deposition velocities under the combined effects of electrophoresis and thermophoresis. <i>Journal of the Korean Physical Society</i> , 2014 , 64, 832-839	0.6	2
118	Flow characteristics of dual piezoelectric cooling jets for cooling applications in ultra-slim electronics. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 79, 201-211	4.9	15
117	Analytical tools for calculating the maximum heat transfer of annular stepped fins with internal heat generation and radiation effects. <i>Energy</i> , 2014 , 76, 733-748	7.9	25
116	A simple sizing method for combined heat and power units. <i>Energy</i> , 2014 , 65, 123-133	7.9	16
115	Critical operating conditions for prevention of frost formation in fin-tube heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 76, 279-285	4.9	8
114	Scaling method for storage vaults based on thermal-hydraulic characteristics. <i>Nuclear Engineering and Design</i> , 2014 , 275, 242-248	1.8	1
113	Prediction of particle deposition velocity onto an extreme ultraviolet lithography mask in parallel airflow considering electrophoresis. <i>International Journal of Modern Physics C</i> , 2014 , 25, 1450010	1.1	3
112	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> , 2014 , 27, 287-293	2.6	7
111	Particle Deposition Velocity Onto EUVL Masks in Vertical Airflow. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2014 , 27, 417-421	2.6	6
110	Collection efficiency of round-nozzle impactors with horizontal annular inlet. <i>Journal of Aerosol Science</i> , 2014 , 74, 63-69	4.3	7
109	Investigation of influence of constraints with radius links on locomotive axle load distribution and wheelset steering ability. <i>Journal of Mechanical Science and Technology</i> , 2013 , 27, 1903-1913	1.6	4
108	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> , 2013 , 67, 225-233	4.9	39
107	Finite element simulation of crack propagation based on phase field theory. <i>Journal of Mechanical Science and Technology</i> , 2013 , 27, 3073-3085	1.6	7
106	Optimum placement of top discharge outdoor unit installed near a wall. <i>Energy and Buildings</i> , 2013 , 59, 228-235	7	10

105	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> , 2013 , 63, 414-424	4.9	7
104	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> , 2013 , 60, 505-511	4.9	58
103	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> , 2013 , 64, 751-758	4.9	27
102	Unique Analysis for Cascaded Rectangular-Triangular Fins with Convection-Radiation Transport. <i>Journal of Thermophysics and Heat Transfer</i> , 2013 , 27, 101-110	1.3	3
101	A non-Fourier analysis for transmitting heat in fins with internal heat generation. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 64, 1153-1162	4.9	22
100	Correlations and shape optimization in a channel with aligned dimples and protrusions. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 64, 444-451	4.9	26
99	Louvered Fin Heat Exchanger : Optimal Design and Numerical Investigation of Heat and Flow Characteristics. <i>Korean Journal of Air-Conditioning and Refrigeration Engineering</i> , 2013 , 25, 654-659	0.5	1
98	Combined heat and power unit capacity for high-heat to power ratio buildings without selling excess electricity to the grid. <i>Energy</i> , 2012 , 38, 354-361	7.9	10
97	Analytic solution for heat transfer of wet fins on account of all nonlinearity effects. <i>Energy</i> , 2012 , 41, 354-367	7.9	38
96	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> , 2012 , 55, 6676-6681	4.9	41
95	Refrigerant circuitry design of fin-and-tube condenser based on entropy generation minimization. <i>International Journal of Refrigeration</i> , 2012 , 35, 1430-1438	3.8	25
94	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> , 2012 , 33, 1314-1333	2.1	10
93	A novel analysis for calculating the smallest envelope shape of wet fins with a nonlinear mode of surface transport. <i>Energy</i> , 2012 , 44, 527-543	7.9	13
92	A model on the basis of analytics for computing maximum heat transfer in porous fins. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 7611-7622	4.9	60
91	Fourier and non-Fourier heat conduction analysis in the absorber plates of a flat-plate solar collector. <i>Solar Energy</i> , 2012 , 86, 3030-3039	6.8	37
90	Shape optimization for the minimum volume of pin fins in simultaneous heat and mass transfer environments. <i>Heat and Mass Transfer</i> , 2012 , 48, 1333-1343	2.2	11
89	Effect of radiation in a radial heat sink under natural convection. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 505-509	4.9	41
88	Multidisciplinary optimization of a pin-fin radial heat sink for LED lighting applications. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 515-521	4.9	91

87	Optimized Envelope Shape of Wet Fins for Nonlinear Heat and Mass Transport. <i>Journal of Thermophysics and Heat Transfer</i> , 2012 , 26, 357-366	1.3	7
86	Design of a Micro-Channel Heat Exchanger for Heat Pump Using Approximate Optimization Method. <i>Korean Journal of Air-Conditioning and Refrigeration Engineering</i> , 2012 , 24, 256-264	0.5	1
85	Effects of Surface Treatment on Frost Formation and Defrosting 2011 ,		2
84	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> , 2011 , 54, 5207-5215	4.9	13
83	Decomposition method for thermal design analysis of vertical straight fins under condensation of quiescent and flowing steam. <i>Heat and Mass Transfer</i> , 2011 , 47, 1261-1274	2.2	2
82	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> , 2011 , 92, 1756-1763	7.2	23
81	A study of spray strategies on improvement of engine performance and emissions reduction characteristics in a DME fueled diesel engine. <i>Energy</i> , 2011 , 36, 1802-1813	7.9	35
80	Correlations and optimization of a heat exchanger with offset-strip fins. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 2073-2079	4.9	77
79	Optimum design of a radial heat sink under natural convection. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 2499-2505	4.9	100
78	Frosting and defrosting characteristics of a fin according to surface contact angle. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 2758-2764	4.9	68
77	Optimum configurations of vertical fins under condensation of saturated vapor. <i>International Journal of Refrigeration</i> , 2011 , 34, 1048-1056	3.8	7
76	Particle Deposition Velocity onto a Wafer or a Photomask in a Laminar Parallel Flow. <i>Journal of the Electrochemical Society</i> , 2010 , 157, H692	3.9	16
75	The ThermoFlow Characteristics of an Oscillatory Flow in Offset-Strip Fins. <i>Numerical Heat Transfer; Part A: Applications</i> , 2010 , 58, 835-851	2.3	12
74	Effects of Fuel Injection Parameters on the Morphological Characteristics of Soot Particulates and Exhaust Emissions from a Light-Duty Diesel Engine. <i>Energy & Fuels</i> , 2010 , 24, 2875-2882	4.1	9
73	Feasibility study on a novel cooling technique using a phase change material in an automotive engine. <i>Energy</i> , 2010 , 35, 478-484	7.9	42
72	Characteristics of frost formation on two-dimensional fins and its empirical correlations. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 2670-2675	4.9	18
71	Thermo-acoustic random response of temperature-dependent functionally graded material panels. <i>Computational Mechanics</i> , 2010 , 46, 377-386	4	14
70	Active coolant control strategies in automotive engines. <i>International Journal of Automotive Technology</i> , 2010 , 11, 767-772	1.6	39

69	Natural convection around a radial heat sink. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 2935-2938	4.9	84
68	Numerical calculation of temperature in the wheel-rail flange contact and implications for lubricant choice. <i>Wear</i> , 2010 , 268, 287-293	3.5	19
67	Optimum generation capacities of micro combined heat and power systems in apartment complexes with varying numbers of apartment units. <i>Energy</i> , 2010 , 35, 5121-5131	7.9	16
66	Optimum Design of Offset-Strip Fins. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , 2010 , 34, 531-537	0.5	
65	Effect of Natural Gas Composition on the Performance of a CNG Engine. <i>Oil and Gas Science and Technology</i> , 2009 , 64, 199-206	1.9	13
64	3-D Optimal Design of Induction Motor Used in High-Pressure Scroll Compressor. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 2076-2084	2	3
63	Switching Controller Design for a Class of Markovian Jump Nonlinear Systems Using Stochastic Small-Gain Theorem. <i>Advances in Difference Equations</i> , 2009 , 2009, 1-23	3.6	2
62	Investigation of coolant flow distribution and the effects of cavitation on water pump performance in an automotive cooling system. <i>International Journal of Energy Research</i> , 2009 , 33, 224-234	4.5	6
61	Frost behavior on a fin considering the heat conduction of heat exchanger fins. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 2581-2588	4.9	21
60	Numerical simulation of structure and no formation of turbulent lean-premixed flames in gas turbine conditions. <i>Journal of Mechanical Science and Technology</i> , 2009 , 23, 3424-3435	1.6	5
59	Analysis of heat transfer and pressure drop characteristics in an offset strip fin heat exchanger. <i>International Communications in Heat and Mass Transfer</i> , 2009 , 36, 259-263	5.8	50
58	Film flow around a fast rotating roller. <i>International Journal of Heat and Fluid Flow</i> , 2009 , 30, 796-803	2.4	8
57	Numerical investigation and optimization of the thermal performance of a brushless DC motor. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 1589-1599	4.9	39
56	Aero-thermo-mechanical characteristics of imperfect shape memory alloy hybrid composite panels. <i>Journal of Sound and Vibration</i> , 2009 , 325, 583-596	3.9	18
55	Numerical Study on Spray Combustion Processes in n-Heptane and Dimethyl Ether Fueled Diesel Engines. <i>Energy & Fuels</i> , 2009 , 23, 4917-4930	4.1	3
54	Supersonic Flutter of Functionally Grated Panels Subject to Acoustic and Thermal Loads. <i>Journal of Aircraft</i> , 2009 , 46, 593-600	1.6	31
53	Thermal Buckling and Flutter Behavior of Shape Memory Alloy Hybrid Composite Shells. <i>Journal of Aircraft</i> , 2009 , 46, 895-902	1.6	5
52	Comparative Numerical Study of Freeze Drying of Solution and Spray-frozen Particles in Trays and Vials. <i>Numerical Heat Transfer; Part A: Applications</i> , 2008 , 54, 406-425	2.3	11

51	Investigation of the Swirl Effect on Diffusion Flame in a Direct-Injection (DI) Diesel Engine Using Image Processing Technology. <i>Energy & Fuels</i> , 2008 , 22, 3687-3694	4.1	21
50	Conditional Moment Closure Modeling for a Three-Dimensional Turbulent Non-premixed Syngas Flame with a Cooling Wall. <i>Energy & Fuels</i> , 2008 , 22, 3639-3648	4.1	6
49	Numerical Study on the Characteristics of Vaporization, Ignition, and Turbulent Combustion Processes in Dimethyl Ether (DME)-Fueled Engine Conditions. <i>Energy & Fuels</i> , 2008 , 22, 3649-3660	4.1	5
48	Modeling of Adhesion for Railway Vehicles. <i>Journal of Adhesion Science and Technology</i> , 2008 , 22, 1017-1034	10.34	16
47	Guaranteed Performance Robust Kalman Filter for Continuous-Time Markovian Jump Nonlinear System with Uncertain Noise. <i>Mathematical Problems in Engineering</i> , 2008 , 2008, 1-12	1.1	3
46	Dimensionless correlations of frost properties on a cold cylinder surface. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 3946-3952	4.9	37
45	Robust extended Kalman filter of discrete-time Markovian jump nonlinear system under uncertain noise. <i>Journal of Mechanical Science and Technology</i> , 2008 , 22, 1132-1139	1.6	14
44	The structural variation of the gas diffusion layer and a performance evaluation of polymer electrolyte fuel cells as a function of clamping pressure. <i>Journal of Mechanical Science and Technology</i> , 2008 , 22, 565-574	1.6	5
43	Multi-dimensional modeling of CO poisoning effects on proton exchange membrane fuel cells (PEMFCs). <i>Journal of Mechanical Science and Technology</i> , 2008 , 22, 991-998	1.6	11
42	Control system for maximum use of adhesive forces of a railway vehicle in a tractive mode. <i>Mechanical Systems and Signal Processing</i> , 2008 , 22, 709-720	7.8	41
41	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> , 2008 , 29, 352-363	2.4	18
40	Macroscopic analysis of characteristic water transport phenomena in polymer electrolyte fuel cells. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 2073-2086	6.7	5
39	Micromechanics analysis of progressive failure in cross-ply carbon fiber/epoxy composite under uniaxial loading. <i>Journal of Mechanical Science and Technology</i> , 2007 , 21, 2023-2030	1.6	1
38	An investigation of local heat transfer characteristics in a ventilated disc brake with helically fluted surfaces. <i>Journal of Mechanical Science and Technology</i> , 2007 , 21, 2178-2187	1.6	6
37	Modeling for predicting frosting behavior of a fin-tube heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 1472-1479	4.9	65
36	Fin spacing optimization of a fin-tube heat exchanger under frosting conditions. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 2619-2625	4.9	51
35	Optimal Design of a Parallel-Flow Heat Exchanger Using a Response Surface Methodology. <i>Numerical Heat Transfer; Part A: Applications</i> , 2006 , 49, 411-426	2.3	8
34	Outgassing Test of High Temperature Superconducting (HTS) Power Cable Cryostat. <i>IEEE Transactions on Applied Superconductivity</i> , 2006 , 16, 1590-1593	1.8	

33	Frost formation on a cold surface under turbulent flow. <i>International Journal of Refrigeration</i> , 2006 , 29, 164-169	3.8	46
32	Correlation of Critical Air Temperature for Frost Delay on a Cold Plate. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , 2006 , 30, 1188-1195	0.5	2
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