## Kai Choong Leong

# 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.

112	5,747	32	75
papers	citations	h-index	g-index
124	6,430 ext. citations	5	6.04
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
112	Experimental investigation of a topology-optimized phase change heat sink optimized for natural convection. <i>Applied Energy</i> , <b>2022</b> , 314, 118984	10.7	1
111	A theoretical analysis and parametric study of filmwise condensation on three-dimensional pin fins. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 171, 121092	4.9	4
110	A critical review of filmwise natural and forced convection condensation on enhanced surfaces. <i>Applied Thermal Engineering</i> , <b>2021</b> , 186, 116437	5.8	5
109	A theoretical study of condensation heat transfer in tubes with novel cross-sections. <i>Thermal Science and Engineering Progress</i> , <b>2021</b> , 28, 101075	3.6	
108	An experimental investigation of a PCM-based heat sink enhanced with a topology-optimized tree-like structure. <i>Energy Conversion and Management</i> , <b>2021</b> , 245, 114608	10.6	13
107	Effect of fin pitch on the filmwise condensation of steam on three-dimensional conical pin fin arrays: A comparative study. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 150, 119328	4.9	10
106	Additively-manufactured metallic porous lattice heat exchangers for air-side heat transfer enhancement. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 150, 119262	4.9	31
105	Entropy generation for flow boiling on a single semi-circular minichannel. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 154, 119689	4.9	6
104	Forced convection condensation of R134a in three-dimensional conical pin fin tubes. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 144, 118599	4.9	7
103	Nucleate flow boiling enhancement on engineered three-dimensional porous metallic structures in FC-72. <i>Applied Thermal Engineering</i> , <b>2019</b> , 159, 113846	5.8	13
102	Experimental study of flow boiling of FC-72 in fractal-like flow channels. <i>International Journal of Thermal Sciences</i> , <b>2019</b> , 140, 184-200	4.1	5
101	Filmwise Condensation of Steam on Pin Fin Arrays Fabricated by Selective Laser Melting. <i>Defect and Diffusion Forum</i> , <b>2019</b> , 390, 71-82	0.7	2
100	Filmwise condensation of steam on sinusoidal pin fin arrays: Effects of fin height and fin pitch. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 130, 1004-1015	4.9	15
99	Experimental and numerical investigation of forced convection heat transfer in porous lattice structures produced by selective laser melting. <i>International Journal of Thermal Sciences</i> , <b>2019</b> , 137, 27	6-287	32
98	An experimental investigation of single droplet impact cooling on hot enhanced surfaces fabricated by selective laser melting. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 120, 652-67	70 <sup>4.9</sup>	14
97	Saturated pool boiling enhancement using porous lattice structures produced by Selective Laser Melting. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 121, 46-63	4.9	76
96	Condensation heat transfer and pressure drop characteristics of R-134a in horizontal smooth tubes and enhanced tubes fabricated by selective laser melting. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 126, 949-962	4.9	12

### (2011-2018)

95	Filmwise condensation of steam on vertical plates with novel pin fin arrays produced by selective laser melting. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 126, 652-666	4.9	12
94	Theoretical and experimental investigations of isosteric heats for water adsorption on silica gel surfaces. <i>Applied Thermal Engineering</i> , <b>2018</b> , 141, 134-142	5.8	8
93	Convective heat transfer performance of airfoil heat sinks fabricated by selective laser melting. <i>International Journal of Thermal Sciences</i> , <b>2017</b> , 114, 213-228	4.1	44
92	CO 2 -assisted compression-adsorption hybrid for cooling and desalination. <i>Energy Conversion and Management</i> , <b>2017</b> , 143, 538-552	10.6	20
91	Potential of district cooling in hot and humid climates. <i>Applied Energy</i> , <b>2017</b> , 208, 49-61	10.7	34
90	Numerical analysis of different fluted fins for condensation on a vertical tube. <i>International Journal of Thermal Sciences</i> , <b>2017</b> , 122, 359-370	4.1	15
89	Cylindrical porous inserts for enhancing the thermal and hydraulic performance of water-cooled cold plates. <i>Applied Thermal Engineering</i> , <b>2017</b> , 121, 863-878	5.8	19
88	A critical review of pool and flow boiling heat transfer of dielectric fluids on enhanced surfaces. <i>Applied Thermal Engineering</i> , <b>2017</b> , 112, 999-1019	5.8	74
87	Fabrication of heat sinks by Selective Laser Melting for convective heat transfer applications. <i>Virtual and Physical Prototyping</i> , <b>2016</b> , 11, 159-165	10.1	45
86	Revisiting adsorption cooling cycle from mathematical modelling to system development. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 63, 315-332	16.2	16
85	Saturated pool boiling of FC-72 from enhanced surfaces produced by Selective Laser Melting. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 99, 107-121	4.9	76
84	Optimization and comparison of double-layer and double-side micro-channel heat sinks with nanofluid for power electronics cooling. <i>Applied Thermal Engineering</i> , <b>2014</b> , 65, 124-134	5.8	73
83	Saturated pool boiling from carbon nanotube coated surfaces at different orientations. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 79, 893-904	4.9	32
82	An experimental study of flow boiling heat transfer from porous foam structures in a channel. <i>Applied Thermal Engineering</i> , <b>2014</b> , 70, 100-114	5.8	19
81	Flow Boiling Heat Transfer Enhancement from Carbon Nanotube-Enhanced Surfaces. <i>Defect and Diffusion Forum</i> , <b>2014</b> , 348, 20-26	0.7	
80	The role of graphite foam pore structure on saturated pool boiling enhancement. <i>Applied Thermal Engineering</i> , <b>2012</b> , 42, 163-172	5.8	29
79	Saturated pool boiling heat transfer from highly conductive graphite foams. <i>Applied Thermal Engineering</i> , <b>2011</b> , 31, 2685-2693	5.8	24
78	Experimental and numerical study of single and two-phase flow and heat transfer in aluminum foams. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 4904-4912	4.9	34

77	Theoretical study of the effective thermal conductivity of graphite foam based on a unit cell model. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 5491-5496	4.9	29
76	Theoretical insight of adsorption cooling. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 221910	3.4	38
75	Experimental Study of Enhanced Pool Boiling Heat Transfer Using Graphite Foam Inserts. <i>Defect and Diffusion Forum</i> , <b>2011</b> , 312-315, 352-357	0.7	2
74	Convective Heat Transfer in Graphite Foam Heat Sinks With Baffle and Stagger Structures. <i>Journal of Heat Transfer</i> , <b>2011</b> , 133,	1.8	12
73	Experimental Study of a Two-Phase Thermosyphon With Porous Graphite Foam Insert. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2011</b> , 3,	1.9	7
72	Analysis of fluid flow and heat transfer in a channel with staggered porous blocks. <i>International Journal of Thermal Sciences</i> , <b>2010</b> , 49, 950-962	4.1	32
71	A response to Comments on the effect of liquid layering on the thermal conductivity of nanofluids [E. Doroodchi, T. M. Evans & B. Moghtaderi, 2009. J Nanopart Res 11(6):1501 [1507. Journal of Nanoparticle Research, 2010, 12, 2007-2010	2.3	1
70	Numerical and experimental study of forced convection in graphite foams of different configurations. <i>Applied Thermal Engineering</i> , <b>2010</b> , 30, 520-532	5.8	39
69	Transient behavior of fluid flow and heat transfer with phase change in vertical porous channels. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 5209-5222	4.9	26
68	Transient two-phase flow and heat transfer with localized heating in porous media. <i>International Journal of Thermal Sciences</i> , <b>2010</b> , 49, 1115-1127	4.1	26
67	Three-dimensional numerical simulation of fluid flow with phase change heat transfer in an asymmetrically heated porous channel. <i>International Journal of Thermal Sciences</i> , <b>2010</b> , 49, 2363-2375	4.1	13
66	A combined model for the effective thermal conductivity of nanofluids. <i>Applied Thermal Engineering</i> , <b>2009</b> , 29, 2477-2483	5.8	172
65	A benchmark study on the thermal conductivity of nanofluids. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 094	13≥1 <i>3</i> ≥	766
64	Convective heat transfer in graphite foams with complex structures <b>2008</b> ,		1
63	Forced convection air cooling in porous graphite foam for thermal management applications. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008,		9
62	CONVECTIVE HEAT TRANSFER CHARACTERISTICS OF AQUEOUS TIO2 NANOFLUID UNDER LAMINAR FLOW CONDITIONS. <i>International Journal of Nanoscience</i> , <b>2008</b> , 07, 325-331	0.6	30
61	Pressure drop and friction factor of steady and oscillating flows in open-cell porous media. <i>Transport in Porous Media</i> , <b>2008</b> , 72, 37-52	3.1	22
60	Study of Highly Conductive Graphite Foams in Thermal Management Applications. <i>Advanced Engineering Materials</i> , <b>2008</b> , 10, 338-345	3.5	10

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59	Investigations of thermal conductivity and viscosity of nanofluids. <i>International Journal of Thermal Sciences</i> , <b>2008</b> , 47, 560-568	4.1	768
58	Thermophysical and electrokinetic properties of nanofluids 🖪 critical review. <i>Applied Thermal Engineering</i> , <b>2008</b> , 28, 2109-2125	5.8	460
57	Numerical modeling of a zeolite/water adsorption cooling system with non-constant condensing pressure. <i>International Communications in Heat and Mass Transfer</i> , <b>2008</b> , 35, 618-622	5.8	14
56	Characterization of electrokinetic properties of nanofluids. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 5966-71	1.3	
55	Life cycle energy, emissions and cost inventory of power generation technologies in Singapore. <i>Renewable and Sustainable Energy Reviews</i> , <b>2007</b> , 11, 702-715	16.2	80
54	Experimental Study of Passive Heat Transfer Enhancement in a Drag-Reducing Flow. <i>Heat Transfer Engineering</i> , <b>2007</b> , 28, 9-18	1.7	2
53	Effect of oscillatory frequency on heat transfer in metal foam heat sinks of various pore densities. <i>International Journal of Heat and Mass Transfer</i> , <b>2006</b> , 49, 671-681	4.9	67
52	Heat Transfer Characteristics of Oscillating Flow Through Highly Porous Medium <b>2006</b> , 343		
51	Determination of the effective thermal diffusivity of nanofluids by the double hot-wire technique. <i>Journal Physics D: Applied Physics</i> , <b>2006</b> , 39, 5316-5322	3	61
50	A MODEL FOR PREDICTING THE EFFECTIVE THERMAL CONDUCTIVITY OF NANOPARTICLE-FLUID SUSPENSIONS. <i>International Journal of Nanoscience</i> , <b>2006</b> , 05, 23-33	0.6	36
49	Heat Transfer Performance of Metal Foam Heat Sinks Subjected to Oscillating Flow. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2006</b> , 29, 856-863		4
48	Numerical study of a novel cascading adsorption cycle. <i>International Journal of Refrigeration</i> , <b>2006</b> , 29, 250-259	3.8	37
47	Characteristics of oscillating flow through a channel filled with open-cell metal foam. <i>International Journal of Heat and Fluid Flow</i> , <b>2006</b> , 27, 144-153	2.4	54
46	Experimental study of heat transfer enhancement in a drag-reducing two-dimensional channel flow. <i>International Journal of Heat and Mass Transfer</i> , <b>2006</b> , 49, 1462-1471	4.9	20
45	System performance of a combined heat and mass recovery adsorption cooling cycle: A parametric study. <i>International Journal of Heat and Mass Transfer</i> , <b>2006</b> , 49, 2703-2711	4.9	30
44	Numerical study of an internal-reforming solid oxide fuel cell and adsorption chiller co-generation system. <i>Journal of Power Sources</i> , <b>2006</b> , 159, 501-508	8.9	32
43	Life cycle assessment study of solar PV systems: An example of a 2.7 kWp distributed solar PV system in Singapore. <i>Solar Energy</i> , <b>2006</b> , 80, 555-563	6.8	178
42	A model for the thermal conductivity of nanofluids Ithe effect of interfacial layer. <i>Journal of Nanoparticle Research</i> , <b>2006</b> , 8, 245-254	2.3	264

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40	An experimental study of heat transfer in oscillating flow through a channel filled with an aluminum foam. <i>International Journal of Heat and Mass Transfer</i> , <b>2005</b> , 48, 243-253	4.9	96
39	Enhanced thermal conductivity of TiO2Water based nanofluids. <i>International Journal of Thermal Sciences</i> , <b>2005</b> , 44, 367-373	4.1	970
38	The effect of operating conditions on the performance of zeolite/water adsorption cooling systems. <i>Applied Thermal Engineering</i> , <b>2005</b> , 25, 1403-1418	5.8	45
37	Gas fired combined cycle plant in Singapore: energy use, GWP and costl life cycle approach. <i>Energy Conversion and Management</i> , <b>2005</b> , 46, 2145-2157	10.6	42
36	EXPERIMENTAL STUDIES ON DRAG REDUCTION AND HEAT TRANSFER ENHANCEMENT IN A TWO-DIMENSIONAL TURBULENT CHANNEL FLOW(Wall Jet and Wall Flow). <i>The Proceedings of the International Conference on Jets Wakes and Separated Flows (ICJWSF)</i> , <b>2005</b> , 2005, 91-96		
35	Heat transfer of oscillating and steady flows in a channel filled with porous media. <i>International Communications in Heat and Mass Transfer</i> , <b>2004</b> , 31, 63-72	5.8	37
34	Numerical study of a combined heat and mass recovery adsorption cooling cycle. <i>International Journal of Heat and Mass Transfer</i> , <b>2004</b> , 47, 4761-4770	4.9	38
33	Numerical modeling of combined heat and mass transfer in the adsorbent bed of a zeolite/water cooling system. <i>Applied Thermal Engineering</i> , <b>2004</b> , 24, 2359-2374	5.8	66
32	Influences of substrate wettability and liquid viscosity on isothermal spreading of liquid droplets on solid surfaces. <i>Experiments in Fluids</i> , <b>2002</b> , 33, 728-731	2.5	22
31	The effect of latent heat of fusion on heat transfer in fluidized-bed coating of thin plates. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2002</b> , 41, 567-576	3.7	9
30	A numerical study of solidification of n-hexadecane based on the enthalpy formulation. <i>Journal of Materials Processing Technology</i> , <b>2002</b> , 120, 249-258	5.3	17
29	Effect of the plasma cleaning process on plastic ball grid array package assembly reliability. <i>IEEE Transactions on Electronics Packaging Manufacturing</i> , <b>2002</b> , 25, 91-99		10
28	Modeling of heat transfer in fluidized-bed coating of cylinders. <i>Chemical Engineering Science</i> , <b>2001</b> , 56, 5189-5200	4.4	12
27	An Experimental Study of Heat Transfer of a Porous Channel Subjected to Oscillating Flow. <i>Journal of Heat Transfer</i> , <b>2001</b> , 123, 162-170	1.8	67
26	Conjugate solidification inside a thick mold. <i>Journal of Materials Processing Technology</i> , <b>1999</b> , 89-90, 1	59 <del>5</del> 1 <b>6</b> 4	3
25	A comparative study of the fluidized-bed coating of cylindrical metal surfaces with various thermoplastic polymer powders. <i>Journal of Materials Processing Technology</i> , <b>1999</b> , 89-90, 354-360	5.3	18
24	An experimental investigation of solidification in a rectangular enclosure under constant heat rate condition. <i>International Communications in Heat and Mass Transfer</i> , <b>1999</b> , 26, 925-934	5.8	13

#### (1991-1999)

23	An upper bound solution for the coating thickness of cylinders in a fluidized bed. <i>Chemical Engineering Science</i> , <b>1999</b> , 54, 1145-1149	4.4	8
22	Visualization of transient natural convection heat transfer from a vertical rectangular fin. <i>Journal of Visualization</i> , <b>1999</b> , 1, 365-372	1.6	
21	Modelling of heat transfer in fluidized-bed coating of thin plates. <i>Chemical Engineering Science</i> , <b>1998</b> , 53, 1307-1310	4.4	5
20	FINITE ELEMENT MODELING OF HEAT TRANSFER IN CHIP ON TAPE PACKAGES. <i>Journal of Electronics Manufacturing</i> , <b>1998</b> , 08, 139-149		3
19	Characterization of Sintered Copper Wicks Used in Heat Pipes. <i>Journal of Porous Materials</i> , <b>1997</b> , 4, 303	- <u>3</u> 0β	38
18	Influence of hue origin on the hue-temperature calibration of thermochromic liquid crystals. <i>Heat and Mass Transfer</i> , <b>1997</b> , 33, 121-127	2.2	4
17	Experimental study of freezing in a rectangular enclosure. <i>Journal of Materials Processing Technology</i> , <b>1997</b> , 70, 129-136	5.3	3
16	Effect of liquid superheat on freezing of N-hexadecane in a rectangular enclosure. <i>International Communications in Heat and Mass Transfer</i> , <b>1997</b> , 24, 313-322	5.8	
15	Vapor pressure distribution of a flat plate heat pipe. <i>International Communications in Heat and Mass Transfer</i> , <b>1996</b> , 23, 789-797	5.8	5
14	NATURAL CONVECTION FROM A VERTICAL RECTANGULAR FIN. <i>Experimental Heat Transfer</i> , <b>1996</b> , 9, 287-303	2.4	3
13	The effective length of a flat plate heat pipe covered partially by a strip heater on the evaporator section. <i>Heat Recovery Systems &amp; CHP</i> , <b>1995</b> , 15, 383-388		6
12	An analysis of natural convection film boiling from spheres using the spherical coordinate system. <i>International Communications in Heat and Mass Transfer</i> , <b>1995</b> , 22, 803-813	5.8	3
11	Fluidized bed coating of copper cylinders. <i>Journal of Materials Processing Technology</i> , <b>1995</b> , 48, 525-531	5.3	7
10	Effect of wall temperature and aspect ratio on the solid-liquid interface during freezing inside a rectangular enclosure. <i>International Communications in Heat and Mass Transfer</i> , <b>1994</b> , 21, 641-650	5.8	3
9	An experimental study on the porosity of powder coatings in a fluidized bed. <i>Powder Technology</i> , <b>1994</b> , 81, 201-206	5.2	3
8	Heat transfer in fluidized bed coating of copper cylinders. <i>International Communications in Heat and Mass Transfer</i> , <b>1993</b> , 20, 699-710	5.8	7
7	Forced convection heat transfer from vertically stacked fin arrays with a shrouding wall. <i>International Communications in Heat and Mass Transfer</i> , <b>1992</b> , 19, 373-384	5.8	1
6	Microcomputer-based design of rotary regenerators. <i>Heat Recovery Systems &amp; CHP</i> , <b>1991</b> , 11, 461-470		8

5	Some observations on the use of expert systems for the ball-burnishing operation. <i>Journal of Materials Processing Technology</i> , <b>1990</b> , 22, 99-110	5.3	1
4	Thermal-based tool sensor for ball burnishing. <i>Journal of Mechanical Working Technology</i> , <b>1989</b> , 20, 121-	128	5
3	Heat Transfer in Open-Cell Metal Foams Subjected to Oscillating Flow291-341		
2	Thermal Conductivity of Nanoparticle Suspensions (Nanofluids)		4

Experimental Study of Flow Boiling and Condensation in Tubes with Pin-Fin and Metallic Foam Structures. Heat Transfer Engineering,1-20