Kai Choong Leong

List of Publications by Citations

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

#	Paper	IF	Citations
112	Enhanced thermal conductivity of TiO2/water based nanofluids. *International Journal of Thermal Sciences*, **2005**, 44, 367-373	4.1	970
111	Investigations of thermal conductivity and viscosity of nanofluids. *International Journal of Thermal Sciences*, **2008**, 47, 560-568	4.1	768
110	A benchmark study on the thermal conductivity of nanofluids. *Journal of Applied Physics*, **2009**, 106, 094312	2.5	766
109	Thermophysical and electrokinetic properties of nanofluids - A critical review. *Applied Thermal Engineering*, **2008**, 28, 2109-2125	5.8	460
108	A model for the thermal conductivity of nanofluids - the effect of interfacial layer. *Journal of Nanoparticle Research*, **2006**, 8, 245-254	2.3	264
107	Life cycle assessment study of solar PV systems: An example of a 2.7 kWp distributed solar PV system in Singapore. *Solar Energy*, **2006**, 80, 555-563	6.8	178
106	A combined model for the effective thermal conductivity of nanofluids. *Applied Thermal Engineering*, **2009**, 29, 2477-2483	5.8	172
105	An experimental study of heat transfer in oscillating flow through a channel filled with an aluminum foam. *International Journal of Heat and Mass Transfer*, **2005**, 48, 243-253	4.9	96
104	Life cycle energy, emissions and cost inventory of power generation technologies in Singapore. *Renewable and Sustainable Energy Reviews*, **2007**, 11, 702-715	16.2	80
103	Saturated pool boiling enhancement using porous lattice structures produced by Selective Laser Melting. *International Journal of Heat and Mass Transfer*, **2018**, 121, 46-63	4.9	76
102	Saturated pool boiling of FC-72 from enhanced surfaces produced by Selective Laser Melting. *International Journal of Heat and Mass Transfer*, **2016**, 99, 107-121	4.9	76
101	A critical review of pool and flow boiling heat transfer of dielectric fluids on enhanced surfaces. *Applied Thermal Engineering*, **2017**, 112, 999-1019	5.8	74
100	Optimization and comparison of double-layer and double-side micro-channel heat sinks with nanofluid for power electronics cooling. *Applied Thermal Engineering*, **2014**, 65, 124-134	5.8	73
99	Effect of oscillatory frequency on heat transfer in metal foam heat sinks of various pore densities. *International Journal of Heat and Mass Transfer*, **2006**, 49, 671-681	4.9	67
98	An Experimental Study of Heat Transfer of a Porous Channel Subjected to Oscillating Flow. *Journal of Heat Transfer*, **2001**, 123, 162-170	1.8	67
97	Numerical modeling of combined heat and mass transfer in the adsorbent bed of a zeolite/water cooling system. *Applied Thermal Engineering*, **2004**, 24, 2359-2374	5.8	66
96	Determination of the effective thermal diffusivity of nanofluids by the double hot-wire technique. *Journal Physics D: Applied Physics*, **2006**, 39, 5316-5322	3	61

95	Characteristics of oscillating flow through a channel filled with open-cell metal foam. *International Journal of Heat and Fluid Flow*, **2006**, 27, 144-153	2.4	54
94	Fabrication of heat sinks by Selective Laser Melting for convective heat transfer applications. *Virtual and Physical Prototyping*, **2016**, 11, 159-165	10.1	45
93	The effect of operating conditions on the performance of zeolite/water adsorption cooling systems. *Applied Thermal Engineering*, **2005**, 25, 1403-1418	5.8	45
92	Convective heat transfer performance of airfoil heat sinks fabricated by selective laser melting. *International Journal of Thermal Sciences*, **2017**, 114, 213-228	4.1	44
91	Gas fired combined cycle plant in Singapore: energy use, GWP and cost: a life cycle approach. *Energy Conversion and Management*, **2005**, 46, 2145-2157	10.6	42
90	Numerical and experimental study of forced convection in graphite foams of different configurations. *Applied Thermal Engineering*, **2010**, 30, 520-532	5.8	39
89	Theoretical insight of adsorption cooling. *Applied Physics Letters*, **2011**, 98, 221910	3.4	38
88	Characterization of Sintered Copper Wicks Used in Heat Pipes. *Journal of Porous Materials*, **1997**, 4, 303-308	2.4	38
87	Numerical study of a combined heat and mass recovery adsorption cooling cycle. *International Journal of Heat and Mass Transfer*, **2004**, 47, 4761-4770	4.9	38
86	Numerical study of a novel cascading adsorption cycle. *International Journal of Refrigeration*, **2006**, 29, 250-259	3.8	37
85	Heat transfer of oscillating and steady flows in a channel filled with porous media. *International Communications in Heat and Mass Transfer*, **2004**, 31, 63-72	5.8	37
84	A MODEL FOR PREDICTING THE EFFECTIVE THERMAL CONDUCTIVITY OF NANOPARTICLE-FLUID SUSPENSIONS. *International Journal of Nanoscience*, **2006**, 05, 23-33	0.6	36
83	Potential of district cooling in hot and humid climates. *Applied Energy*, **2017**, 208, 49-61	10.7	34
82	Experimental and numerical study of single and two-phase flow and heat transfer in aluminum foams. *International Journal of Heat and Mass Transfer*, **2011**, 54, 4904-4912	4.9	34
81	Saturated pool boiling from carbon nanotube coated surfaces at different orientations. *International Journal of Heat and Mass Transfer*, **2014**, 79, 893-904	4.9	32
80	Analysis of fluid flow and heat transfer in a channel with staggered porous blocks. *International Journal of Thermal Sciences*, **2010**, 49, 950-962	4.1	32
79	Numerical study of an internal-reforming solid oxide fuel cell and adsorption chiller co-generation system. *Journal of Power Sources*, **2006**, 159, 501-508	8.9	32
78	Experimental and numerical investigation of forced convection heat transfer in porous lattice structures produced by selective laser melting. *International Journal of Thermal Sciences*, **2019**, 137, 276-287	4.1	32

77	Additively-manufactured metallic porous lattice heat exchangers for air-side heat transfer enhancement. *International Journal of Heat and Mass Transfer*, **2020**, 150, 119262	4.9	31
76	CONVECTIVE HEAT TRANSFER CHARACTERISTICS OF AQUEOUS TiO2 NANOFLUID UNDER LAMINAR FLOW CONDITIONS. *International Journal of Nanoscience*, **2008**, 07, 325-331	0.6	30
75	System performance of a combined heat and mass recovery adsorption cooling cycle: A parametric study. *International Journal of Heat and Mass Transfer*, **2006**, 49, 2703-2711	4.9	30
74	The role of graphite foam pore structure on saturated pool boiling enhancement. *Applied Thermal Engineering*, **2012**, 42, 163-172	5.8	29
73	Theoretical study of the effective thermal conductivity of graphite foam based on a unit cell model. *International Journal of Heat and Mass Transfer*, **2011**, 54, 5491-5496	4.9	29
72	Transient behavior of fluid flow and heat transfer with phase change in vertical porous channels. *International Journal of Heat and Mass Transfer*, **2010**, 53, 5209-5222	4.9	26
71	Transient two-phase flow and heat transfer with localized heating in porous media. *International Journal of Thermal Sciences*, **2010**, 49, 1115-1127	4.1	26
70	Saturated pool boiling heat transfer from highly conductive graphite foams. *Applied Thermal Engineering*, **2011**, 31, 2685-2693	5.8	24
69	Pressure drop and friction factor of steady and oscillating flows in open-cell porous media. *Transport in Porous Media*, **2008**, 72, 37-52	3.1	22
68	Influences of substrate wettability and liquid viscosity on isothermal spreading of liquid droplets on solid surfaces. *Experiments in Fluids*, **2002**, 33, 728-731	2.5	22
67	CO 2 -assisted compression-adsorption hybrid for cooling and desalination. *Energy Conversion and Management*, **2017**, 143, 538-552	10.6	20
66	Experimental study of heat transfer enhancement in a drag-reducing two-dimensional channel flow. *International Journal of Heat and Mass Transfer*, **2006**, 49, 1462-1471	4.9	20
65	An experimental study of flow boiling heat transfer from porous foam structures in a channel. *Applied Thermal Engineering*, **2014**, 70, 100-114	5.8	19
64	Cylindrical porous inserts for enhancing the thermal and hydraulic performance of water-cooled cold plates. *Applied Thermal Engineering*, **2017**, 121, 863-878	5.8	19
63	A comparative study of the fluidized-bed coating of cylindrical metal surfaces with various thermoplastic polymer powders. *Journal of Materials Processing Technology*, **1999**, 89-90, 354-360	5.3	18
62	A numerical study of solidification of n-hexadecane based on the enthalpy formulation. *Journal of Materials Processing Technology*, **2002**, 120, 249-258	5.3	17
61	Revisiting adsorption cooling cycle from mathematical modelling to system development. *Renewable and Sustainable Energy Reviews*, **2016**, 63, 315-332	16.2	16
60	Numerical analysis of different fluted fins for condensation on a vertical tube. *International Journal of Thermal Sciences*, **2017**, 122, 359-370	4.1	15

59	Filmwise condensation of steam on sinusoidal pin fin arrays: Effects of fin height and fin pitch. *International Journal of Heat and Mass Transfer*, **2019**, 130, 1004-1015	4.9	15
58	An experimental investigation of single droplet impact cooling on hot enhanced surfaces fabricated by selective laser melting. *International Journal of Heat and Mass Transfer*, **2018**, 120, 652-670	4.9	14
57	Numerical modeling of a zeolite/water adsorption cooling system with non-constant condensing pressure. *International Communications in Heat and Mass Transfer*, **2008**, 35, 618-622	5.8	14
56	Nucleate flow boiling enhancement on engineered three-dimensional porous metallic structures in FC-72. *Applied Thermal Engineering*, **2019**, 159, 113846	5.8	13
55	Three-dimensional numerical simulation of fluid flow with phase change heat transfer in an asymmetrically heated porous channel. *International Journal of Thermal Sciences*, **2010**, 49, 2363-2375	4.1	13
54	An experimental investigation of solidification in a rectangular enclosure under constant heat rate condition. *International Communications in Heat and Mass Transfer*, **1999**, 26, 925-934	5.8	13
53	An experimental investigation of a PCM-based heat sink enhanced with a topology-optimized tree-like structure. *Energy Conversion and Management*, **2021**, 245, 114608	10.6	13
52	Condensation heat transfer and pressure drop characteristics of R-134a in horizontal smooth tubes and enhanced tubes fabricated by selective laser melting. *International Journal of Heat and Mass Transfer*, **2018**, 126, 949-962	4.9	12
51	Filmwise condensation of steam on vertical plates with novel pin fin arrays produced by selective laser melting. *International Journal of Heat and Mass Transfer*, **2018**, 126, 652-666	4.9	12
50	Convective Heat Transfer in Graphite Foam Heat Sinks With Baffle and Stagger Structures. *Journal of Heat Transfer*, **2011**, 133,	1.8	12
49	Modeling of heat transfer in fluidized-bed coating of cylinders. *Chemical Engineering Science*, **2001**, 56, 5189-5200	4.4	12
48	Effect of fin pitch on the filmwise condensation of steam on three-dimensional conical pin fin arrays: A comparative study. *International Journal of Heat and Mass Transfer*, **2020**, 150, 119328	4.9	10
47	Study of Highly Conductive Graphite Foams in Thermal Management Applications. *Advanced Engineering Materials*, **2008**, 10, 338-345	3.5	10
46	Effect of the plasma cleaning process on plastic ball grid array package assembly reliability. *IEEE Transactions on Electronics Packaging Manufacturing*, **2002**, 25, 91-99		10
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43	An upper bound solution for the coating thickness of cylinders in a fluidized bed. *Chemical Engineering Science*, **1999**, 54, 1145-1149	4.4	8
42	Microcomputer-based design of rotary regenerators. *Heat Recovery Systems & CHP*, **1991**, 11, 461-470		8

41	Theoretical and experimental investigations of isosteric heats for water adsorption on silica gel surfaces. *Applied Thermal Engineering*, **2018**, 141, 134-142	5.8	8
40	Forced convection condensation of R134a in three-dimensional conical pin fin tubes. *International Journal of Heat and Mass Transfer*, **2019**, 144, 118599	4.9	7
39	Experimental Study of a Two-Phase Thermosyphon With Porous Graphite Foam Insert. *Journal of Thermal Science and Engineering Applications*, **2011**, 3,	1.9	7
38	Fluidized bed coating of copper cylinders. *Journal of Materials Processing Technology*, **1995**, 48, 525-531	5.3	7
37	Heat transfer in fluidized bed coating of copper cylinders. *International Communications in Heat and Mass Transfer*, **1993**, 20, 699-710	5.8	7
36	The effective length of a flat plate heat pipe covered partially by a strip heater on the evaporator section. *Heat Recovery Systems & CHP*, **1995**, 15, 383-388		6
35	Entropy generation for flow boiling on a single semi-circular minichannel. *International Journal of Heat and Mass Transfer*, **2020**, 154, 119689	4.9	6
34	Experimental study of flow boiling of FC-72 in fractal-like flow channels. *International Journal of Thermal Sciences*, **2019**, 140, 184-200	4.1	5
33	Modelling of heat transfer in fluidized-bed coating of thin plates. *Chemical Engineering Science*, **1998**, 53, 1307-1310	4.4	5
32	Vapor pressure distribution of a flat plate heat pipe. *International Communications in Heat and Mass Transfer*, **1996**, 23, 789-797	5.8	5
31	Thermal-based tool sensor for ball burnishing. *Journal of Mechanical Working Technology*, **1989**, 20, 121-128		5
30	A critical review of filmwise natural and forced convection condensation on enhanced surfaces. *Applied Thermal Engineering*, **2021**, 186, 116437	5.8	5
29	Influence of hue origin on the hue-temperature calibration of thermochromic liquid crystals. *Heat and Mass Transfer*, **1997**, 33, 121-127	2.2	4
28	Heat Transfer Performance of Metal Foam Heat Sinks Subjected to Oscillating Flow. *IEEE Transactions on Components and Packaging Technologies*, **2006**, 29, 856-863		4
27	Thermal Conductivity of Nanoparticle Suspensions (Nanofluids)		4
26	A theoretical analysis and parametric study of filmwise condensation on three-dimensional pin fins. *International Journal of Heat and Mass Transfer*, **2021**, 171, 121092	4.9	4
25	Experimental study of freezing in a rectangular enclosure. *Journal of Materials Processing Technology*, **1997**, 70, 129-136	5.3	3
24	FINITE ELEMENT MODELING OF HEAT TRANSFER IN CHIP ON TAPE PACKAGES. *Journal of Electronics Manufacturing*, **1998**, 08, 139-149		3

23	Conjugate solidification inside a thick mold. *Journal of Materials Processing Technology*, **1999**, 89-90, 159-164	5.3	3
22	NATURAL CONVECTION FROM A VERTICAL RECTANGULAR FIN. *Experimental Heat Transfer*, **1996**, 9, 287-303	2.4	3
21	Effect of wall temperature and aspect ratio on the solid-liquid interface during freezing inside a rectangular enclosure. *International Communications in Heat and Mass Transfer*, **1994**, 21, 641-650	5.8	3
20	An experimental study on the porosity of powder coatings in a fluidized bed. *Powder Technology*, **1994**, 81, 201-206	5.2	3
19	An analysis of natural convection film boiling from spheres using the spherical coordinate system. *International Communications in Heat and Mass Transfer*, **1995**, 22, 803-813	5.8	3
18	Filmwise Condensation of Steam on Pin Fin Arrays Fabricated by Selective Laser Melting. *Defect and Diffusion Forum*, **2019**, 390, 71-82	0.7	2
17	Experimental Study of Enhanced Pool Boiling Heat Transfer Using Graphite Foam Inserts. *Defect and Diffusion Forum*, **2011**, 312-315, 352-357	0.7	2
16	Experimental Study of Passive Heat Transfer Enhancement in a Drag-Reducing Flow. *Heat Transfer Engineering*, **2007**, 28, 9-18	1.7	2
15	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
14	Convective heat transfer in graphite foams with complex structures **2008**,		1
13	Forced convection heat transfer from vertically stacked fin arrays with a shrouding wall. *International Communications in Heat and Mass Transfer*, **1992**, 19, 373-384	5.8	1
12	Some observations on the use of expert systems for the ball-burnishing operation. *Journal of Materials Processing Technology*, **1990**, 22, 99-110	5.3	1
11	Experimental investigation of a topology-optimized phase change heat sink optimized for natural convection. *Applied Energy*, **2022**, 314, 118984	10.7	1
10	Flow Boiling Heat Transfer Enhancement from Carbon Nanotube-Enhanced Surfaces. *Defect and Diffusion Forum*, **2014**, 348, 20-26	0.7	
9	Effect of liquid superheat on freezing of N-hexadecane in a rectangular enclosure. *International Communications in Heat and Mass Transfer*, **1997**, 24, 313-322	5.8	
8	Heat Transfer in Open-Cell Metal Foams Subjected to Oscillating Flow291-341		
7	Heat Transfer Characteristics of Oscillating Flow Through Highly Porous Medium **2006**, 343		
6	Heat Transfer and Fluid Flow in Metal Foam Subjected to Oscillating Flow **2005**, 301		

5	Visualization of transient natural convection heat transfer from a vertical rectangular fin. *Journal of Visualization*, **1999**, 1, 365-372	1.6
4	EXPERIMENTAL STUDIES ON DRAG REDUCTION AND HEAT TRANSFER ENHANCEMENT IN A TWO-DIMENSIONAL TURBULENT CHANNEL FLOW(Wall Jet and Wall Flow). *The Proceedings of the International Conference on Jets Wakes and Separated Flows (ICJWSF)*, **2005**, 2005, 91-96	
3	Experimental Study of Flow Boiling and Condensation in Tubes with Pin-Fin and Metallic Foam Structures. *Heat Transfer Engineering*,1-20	1.7
2	A theoretical study of condensation heat transfer in tubes with novel cross-sections. *Thermal Science and Engineering Progress*, **2021**, 28, 101075	3.6
1	Characterization of electrokinetic properties of nanofluids. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 5966-71	1.3