C J Ho

List of Publications by Citations

96 papers	3,104 citations	28 h-index	53 g-index
97 ext. papers	3,435 ext. citations	4.3 avg, IF	5.64 L-index

#	Paper	IF	Citations
96	Numerical simulation of natural convection of nanofluid in a square enclosure: Effects due to uncertainties of viscosity and thermal conductivity. *International Journal of Heat and Mass Transfer*, **2008**, 51, 4506-4516	4.9	410
95	An experimental investigation of forced convective cooling performance of a microchannel heat sink with Al2O3/water nanofluid. *Applied Thermal Engineering*, **2010**, 30, 96-103	5.8	290
94	Preparation and thermophysical properties of nanoparticle-in-paraffin emulsion as phase change material. *International Communications in Heat and Mass Transfer*, **2009**, 36, 467-470	5.8	269
93	An experimental study on thermal performance of Al2O3/water nanofluid in a minichannel heat sink. *Applied Thermal Engineering*, **2013**, 50, 516-522	5.8	146
92	Preparation and properties of hybrid water-based suspension of Al2O3 nanoparticles and MEPCM particles as functional forced convection fluid. *International Communications in Heat and Mass Transfer*, **2010**, 37, 490-494	5.8	123
91	An experimental study on melting heat transfer of paraffin dispersed with Al2O3 nanoparticles in a vertical enclosure. *International Journal of Heat and Mass Transfer*, **2013**, 62, 2-8	4.9	118
90	Correlations of heat transfer effectiveness in a minichannel heat sink with water-based suspensions of Al2O3 nanoparticles and/or MEPCM particles. *International Journal of Heat and Mass Transfer*, **2014**, 69, 293-299	4.9	75
89	Thermal and electrical performance of a BIPV integrated with a microencapsulated phase change material layer. *Energy and Buildings*, **2012**, 50, 331-338	7	68
88	Thermal and electrical performance of a water-surface floating PV integrated with a water-saturated MEPCM layer. *Energy Conversion and Management*, **2015**, 89, 862-872	10.6	62
87	Heat transfer during inward melting in a horizontal tube. *International Journal of Heat and Mass Transfer*, **1984**, 27, 705-716	4.9	62
86	Thermal performance of Al 2 O 3 /water nanofluid in a natural circulation loop with a mini-channel heat sink and heat source. *Energy Conversion and Management*, **2014**, 87, 848-858	10.6	57
85	A study of natural convection heat transfer in a vertical rectangular enclosure with two-dimensional discrete heating: Effect of aspect ratio. *International Journal of Heat and Mass Transfer*, **1994**, 37, 917-925	4.9	55
84	Experiment on thermal performance of water-based suspensions of Al2O3 nanoparticles and MEPCM particles in a minichannel heat sink. *International Journal of Heat and Mass Transfer*, **2014**, 69, 276-284	4.9	52
83	Buoyancy-driven flow of nanofluids in a cavity considering the Ludwig-Soret effect and sedimentation: Numerical study and experimental validation. *International Journal of Heat and Mass Transfer*, **2014**, 77, 684-694	4.9	49
82	On laminar convective cooling performance of hybrid water-based suspensions of Al2O3 nanoparticles and MEPCM particles in a circular tube. *International Journal of Heat and Mass Transfer*, **2011**, 54, 2397-2407	4.9	47
81	A numerical study of natural convection in concentric and eccentric horizontal cylindrical annuli with mixed boundary conditions. *International Journal of Heat and Fluid Flow*, **1989**, 10, 40-47	2.4	47
80	Inward solid-liquid phase-change heat transfer in a rectangular cavity with conducting vertical walls. *International Journal of Heat and Mass Transfer*, **1984**, 27, 1055-1065	4.9	42

79	Natural Convection of Cold Water in a Vertical Annulus With Constant Heat Flux on the Inner Wall. *Journal of Heat Transfer*, **1990**, 112, 117-123	1.8	37
78	Experimental study on cooling performance of minichannel heat sink using water-based MEPCM particles. *International Communications in Heat and Mass Transfer*, **2013**, 48, 67-72	5.8	36
77	Conjugate natural convection heat transfer in an air-filled rectangular cavity. *International Communications in Heat and Mass Transfer*, **1987**, 14, 91-100	5.8	35
76	Natural Convection Between Two Horizontal Cylinders in an Adiabatic Circular Enclosure. *Journal of Heat Transfer*, **1993**, 115, 158-165	1.8	34
75	Rayleigh□□ard convection of Al2O3/water nanofluids in a cavity considering sedimentation, thermophoresis, and Brownian motion. *International Communications in Heat and Mass Transfer*, **2014**, 57, 22-26	5.8	33
74	Performance assessment of a BIPV integrated with a layer of water-saturated MEPCM. *Energy and Buildings*, **2013**, 67, 322-333	7	33
73	A continuum model for transport phenomena in convective flow of solid□quid phase change material suspensions. *Applied Mathematical Modelling*, **2005**, 29, 805-817	4.5	33
72	Numerical simulation of melting of ice around a horizontal cylinder. *International Journal of Heat and Mass Transfer*, **1986**, 29, 1359-1369	4.9	31
71	Experimental study of cooling performance of water-based alumina nanofluid in a minichannel heat sink with MEPCM layer embedded in its ceiling. *International Communications in Heat and Mass Transfer*, **2019**, 103, 1-6	5.8	30
70	Contribution of hybrid Al2O3-water nanofluid and PCM suspension to augment thermal performance of coolant in a minichannel heat sink. *International Journal of Heat and Mass Transfer*, **2018**, 122, 651-659	4.9	29
69	Cooling performance of MEPCM suspensions for heat dissipation intensification in a minichannel heat sink. *International Journal of Heat and Mass Transfer*, **2017**, 115, 43-49	4.9	29
68	Thermal and electrical performances of a water-surface floating PV integrated with double water-saturated MEPCM layers. *Applied Thermal Engineering*, **2016**, 94, 122-132	5.8	26
67	Numerical simulation of heat penetration through a vertical rectangular phase change material/air composite cell. *International Journal of Heat and Mass Transfer*, **1996**, 39, 1785-1795	4.9	25
66	Natural Convection Heat Transfer of Cold Water Within an Eccentric Horizontal Cylindrical Annulus. *Journal of Heat Transfer*, **1988**, 110, 894-900	1.8	25
65	Thermal energy storage characteristics in an enclosure packed with MEPCM particles: An experimental and numerical study. *International Journal of Heat and Mass Transfer*, **2014**, 73, 88-96	4.9	24
64	Numerical Investigation of the Thermal Management Performance of MEPCM Modules for PV Applications. *Energies*, **2013**, 6, 3922-3936	3.1	24
63	Thermal and hydrodynamic characteristics of divergent rectangular minichannel heat sinks. *International Journal of Heat and Mass Transfer*, **2018**, 122, 264-274	4.9	23
62	Microencapsulated n-eicosane PCM suspensions: Thermophysical properties measurement and modeling. *International Journal of Heat and Mass Transfer*, **2018**, 125, 792-800	4.9	23

61	Periodic melting within a square enclosure with an oscillatory surface temperature. *International Journal of Heat and Mass Transfer*, **1993**, 36, 725-733	4.9	22
60	A combined numerical and experimental study on the forced convection of Al2O3-water nanofluid in a circular tube. *International Journal of Heat and Mass Transfer*, **2018**, 120, 66-75	4.9	22
59	Thermal performance of water-based suspensions of phase change nanocapsules in a natural circulation loop with a mini-channel heat sink and heat source. *Applied Thermal Engineering*, **2014**, 64, 376-384	5.8	20
58	Effect of Temperature Dependent Properties on Natural Convection of Water Near its Density Maximum in Enclosures. *Numerical Heat Transfer; Part A: Applications*, **2007**, 53, 507-523	2.3	20
57	Experimental study of cooling characteristics of water-based alumina nanofluid in a minichannel heat sink. *Case Studies in Thermal Engineering*, **2019**, 14, 100418	5.6	19
56	Turbulent forced convection effectiveness of alumina□water nanofluid in a circular tube with elevated inlet fluid temperatures: An experimental study. *International Communications in Heat and Mass Transfer*, **2014**, 57, 247-253	5.8	19
55	Analysis of buoyancy-aided convection heat transfer from a horizontal cylinder in a vertical duct at low Reynolds number. *Heat and Mass Transfer*, **1990**, 25, 337-343		19
54	Transient cooling characteristics of Al2O3-water nanofluid flow in a microchannel subject to a sudden-pulsed heat flux. *International Journal of Mechanical Sciences*, **2019**, 151, 95-105	5.5	18
53	SIMULATION OF NATURAL CONVECTION IN A VERTICAL ENCLOSURE BY USING A NEW INCOMPRESSIBLE FLOW FORMULATION□SEUDOVORTICITY-VELOCITY FORMULATION. *Numerical Heat Transfer; Part A: Applications*, **1997**, 31, 881-896	2.3	17
52	The melting process of ice from a vertical wall with time-periodic temperature perturbation inside a rectangular enclosure. *International Journal of Heat and Mass Transfer*, **1993**, 36, 3171-3186	4.9	17
51	Flow visualization during solid-liquid phase change heat transfer II. Melting in a rectangular cavity. *International Communications in Heat and Mass Transfer*, **1983**, 10, 183-190	5.8	17
50	Experiments on laminar cooling characteristics of a phase change nanofluid flow through an iso-flux heated circular tube. *International Journal of Heat and Mass Transfer*, **2018**, 118, 1307-1315	4.9	17
49	Heat transfer characteristics of a rectangular natural circulation loop containing water near its density extreme. *International Journal of Heat and Mass Transfer*, **1997**, 40, 3553-3558	4.9	16
48	Visualization and Prediction of Natural Convection of Water Near Its Density Maximum in a Tall Rectangular Enclosure at High Rayleigh Numbers. *Journal of Heat Transfer*, **2001**, 123, 84-95	1.8	15
47	Thermal convection heat transfer of air/water layers enclosed in horizontal annuli with mixed boundary conditions. *Heat and Mass Transfer*, **1989**, 24, 211-224		15
46	Experimental study of transient thermal characteristics of nanofluid in a minichannel heat sink with MEPCM layer in its ceiling. *International Journal of Heat and Mass Transfer*, **2019**, 133, 1041-1051	4.9	15
45	An experimental study of forced convection effectiveness of Al2O3-water nanofluid flowing in circular tubes. *International Communications in Heat and Mass Transfer*, **2017**, 83, 23-29	5.8	14
44	Comparative study on thermal performance of MEPCM suspensions in parallel and divergent minichannel heat sinks. *International Communications in Heat and Mass Transfer*, **2018**, 94, 96-105	5.8	14

43	Forced convection performance of a MEPCM suspension through an iso-flux heated circular tube: an experimental study. *Heat and Mass Transfer*, **2012**, 48, 487-496	2.2	14
42	Numerical study on magneto-convection of cold water in an open cavity with variable fluid properties. *International Journal of Heat and Fluid Flow*, **2011**, 32, 932-942	2.4	14
41	Natural convection between two horizontal cylinders inside a circular enclosure subjected to external convection. *International Journal of Heat and Fluid Flow*, **1994**, 15, 299-306	2.4	14
40	Laminar forced convection effectiveness of Al 2 O 3 water nanofluid flow in a circular tube at various operation temperatures: Effects of temperature-dependent properties. *International Journal of Heat and Mass Transfer*, **2016**, 100, 464-481	4.9	14
39	Application of a water-saturated MEPCM-PV for reducing winter chilling damage on aqua farms. *Solar Energy*, **2014**, 108, 135-145	6.8	13
38	Buoyancy- and Thermocapillary-Induced Convection of Cold Water in an Open Enclosure with Variable Fluid Properties. *Numerical Heat Transfer; Part A: Applications*, **2010**, 58, 457-474	2.3	13
37	Thermal protection characteristics of a vertical rectangular cell filled with PCM/air layer. *Heat and Mass Transfer*, **1996**, 31, 191-198	2.2	12
36	Thermal and electrical performance of a PV module integrated with double layers of water-saturated MEPCM. *Applied Thermal Engineering*, **2017**, 123, 1120-1133	5.8	11
35	Experimental and numerical study on transient thermal energy storage of microencapsulated phase change material particles in an enclosure. *International Journal of Heat and Mass Transfer*, **2016**, 94, 191-198	4.9	10
34	A simulation for multiple moving boundaries during melting inside an enclosure imposed with cyclic wall temperature. *International Journal of Heat and Mass Transfer*, **1994**, 37, 2505-2516	4.9	10
33	Melting processes of phase change materials in an enclosure with a free-moving ceiling: An experimental and numerical study. *International Journal of Heat and Mass Transfer*, **2015**, 86, 780-786	4.9	9
32	Thermal performance of an innovative curtain-wall-integrated solar heater. *Energy and Buildings*, **2014**, 77, 416-424	7	9
31	Transition to oscillatory natural convection of cold water in a vertical annulus. *International Journal of Heat and Mass Transfer*, **1998**, 41, 1559-1572	4.9	9
30	Transition to oscillatory natural convection of water near its density maximum in a tall enclosure. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2001**, 11, 626-641	4.5	9
29	Laminar Mixed Convection of Cold Water in a Vertical Annulus With a Heated Rotating Inner Cylinder. *Journal of Heat Transfer*, **1992**, 114, 418-424	1.8	9
28	An investigation of transient mixed convection heat transfer of cold water in a tall vertical annulus with a heated rotating inner cylinder. *International Journal of Heat and Mass Transfer*, **1993**, 36, 2847-2859	4.9	9
27	The effects of geometric parameters on the thermal performance of a rectangular natural circulation loop containing PCM suspensions. *Numerical Heat Transfer; Part A: Applications*, **2016**, 70, 1313-1329	2.3	9
26	Experimental Study of Solidification Heat Transfer in an Open Rectangular Cavity. *Journal of Heat Transfer*, **1983**, 105, 671-673	1.8	8

25	Conjugate heat transfer simulation of a rectangular natural circulation loop. *Heat and Mass Transfer* , **2008**, 45, 167-175	2.2	7
24	NUMERICAL SIMULATION OF THREE-DIMENSIONAL INCOMPRESSIBLE FLOW BY A NEW FORMULATION. *International Journal for Numerical Methods in Fluids*, **1996**, 23, 1073-1084	1.9	7
23	Thermal Performance of a Vertical U-Shaped Thermosyphon Containing a Phase-Change Material Suspension Fluid. *Energies*, **2017**, 10, 974	3.1	6
22	Experiments on thermal characteristics of a natural circulation loop with latent heat energy storage under cyclic pulsed heat load. *Heat and Mass Transfer*, **2002**, 39, 11-17	2.2	6
21	Dynamic response of a thermally activated paraffin actuator. *International Journal of Heat and Mass Transfer*, **2016**, 103, 894-899	4.9	6
20	Cooling performance of Al2O3-water nanofluid flow in a minichannel with thermal buoyancy and wall conduction effects. *Case Studies in Thermal Engineering*, **2018**, 12, 833-842	5.6	6
19	Effect on Natural Convection Heat Transfer of Nanofluid in an Enclosure Due to Uncertainties of Viscosity and Thermal Conductivity **2007**, 833		5
18	HEAT TRANSFER OF SOLID□IQUID PHASE-CHANGE MATERIAL SUSPENSIONS IN CIRCULAR PIPES: EFFECTS OF WALL CONDUCTION. *Numerical Heat Transfer; Part A: Applications*, **2004**, 45, 171-190	2.3	5
17	Natural convection in a horizontal annulus partially filled with cold water. *International Journal of Heat and Mass Transfer*, **1991**, 34, 1371-1382	4.9	5
16	Conjugate natural-convection- conduction heat transfer in enclosures divided by horizontal fins. *International Journal of Heat and Fluid Flow*, **1993**, 14, 177-184	2.4	5
15	Outward Melting in a Cylindrical Annulus. *Journal of Energy Resources Technology, Transactions of the ASME*, **1986**, 108, 240-245	2.6	5
14	Laminar natural convection of cold water enclosed in a horizontal annulus with mixed boundary conditions. *International Journal of Heat and Mass Transfer*, **1988**, 31, 2113-2121	4.9	5
13	A thermal circuit model consistent with integral energy balance for internal forced convection in a circular tube. *International Journal of Heat and Mass Transfer*, **2015**, 87, 409-417	4.9	4
12	Simulation on melting processes in a vertical rectangular enclosure with a free-moving ceiling. *International Journal of Heat and Mass Transfer*, **2015**, 83, 222-228	4.9	4
11	Enhancing convective heat transfer for laminar flow in a tube by inserting a concentric inner tube and controlling concurrent flows: a numerical assessment. *International Communications in Heat and Mass Transfer*, **2018**, 99, 26-36	5.8	3
10	Thermal and Electrical Performance of a PV Module Integrated With Microencapsulated Phase Change Material **2013**,		2
9	On cooling behavior of a vertical plate in a phase change material/water composite enclosure under pulsating heat load. *Heat and Mass Transfer*, **1999**, 34, 509-515	2.2	2
8	Conjugate Heat Transfer Analysis of PCM Suspensions in a Circular Tube under External Cooling Convection: Wall Conduction Effects. *Applied Sciences (Switzerland)*, **2020**, 10, 2034	2.6	2

7	Transient Heat Transfer Between Two Horizontal Pipelines in a Heat Tracing Enclosure. *Energies*, **2019**, 12, 1440	3.1	1
6	Numerical simulation of the heat transfer characteristics of a U-shaped thermosyphon containing a PCM suspension. *Applied Thermal Engineering*, **2016**, 108, 1076-1085	5.8	1
5	Mixed convective heating of a moving plate in a parallel duct. *Journal of Thermophysics and Heat Transfer*, **1993**, 7, 751-754	1.3	1
4	On simulation of transient thermal convection of two-fluid layers in a horizontal circular enclosure. *International Journal of Heat and Fluid Flow*, **1990**, 11, 355-361	2.4	1
3	AN EXPERIMENTAL STUDY OF THERMAL-CONVECTION HEAT TRANSFER IN A HORIZONTAL CONCENTRIC ANNULUS PARTIALLY FILLED WITH WATER. *Experimental Heat Transfer*, **1990**, 3, 289-299	2.4	1
2	Thermal Performance of an Indoor Oblong LED Lighting Prototype Incorporating Heat Pipes. *Journal of Asian Architecture and Building Engineering*, **2009**, 8, 585-592	1	
1	Thermal protection characteristics of a vertical rectangular cell filled with PCM/air layer. *Heat and Mass Transfer*, **1996**, 31, 191-198	2.2	