C J Ho

List of Publications by Year
in descending order

97 papers	3,808 citations	136740 32 h-index	133063 59 g-index
97 all docs	97 docs citations	97 times ranked	2377 citing authors

#	Article	IF	Citations
1	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.	2.5	472
2	An experimental investigation of forced convective cooling performance of a microchannel heat sink with Al2O3/water nanofluid. Applied Thermal Engineering, 2010, 30, 96-103.	3.0	348
3	Preparation and thermophysical properties of nanoparticle-in-paraffin emulsion as phase change material. International Communications in Heat and Mass Transfer, 2009, 36, 467-470.	2.9	329
4	An experimental study on thermal performance of Al2O3/water nanofluid in a minichannel heat sink. Applied Thermal Engineering, 2013, 50, 516-522.	3.0	181
5	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.	2.9	166
6	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.	2.5	150
7	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.	2.5	84
8	Thermal and electrical performance of a BIPV integrated with a microencapsulated phase change material layer. Energy and Buildings, 2012, 50, 331-338.	3.1	81
9	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.	4.4	81
10	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.	2.5	72
11	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.	4.4	72
12	Heat transfer during inward melting in a horizontal tube. International Journal of Heat and Mass Transfer, 1984, 27, 705-716.	2.5	67
13	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.	2.5	63
14	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.	1.1	58
15	Buoyancy-driven flow of nanofluids in a cavity considering the Ludwigâ€“Soret effect and sedimentation: Numerical study and experimental validation. International Journal of Heat and Mass Transfer, 2014, 77, 684-694.	2.5	58
16	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.	2.5	52
17	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.	2.5	48
18	Performance assessment of a BIPV integrated with a layer of water-saturated MEPCM. Energy and Buildings, 2013, 67, 322-333.	3.1	47

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19	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.	2.5	46
20	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.	2.9	46
21	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.	2.5	45
22	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.	1.2	40
23	Microencapsulated n-eicosane PCM suspensions: Thermophysical properties measurement and modeling. International Journal of Heat and Mass Transfer, 2018, 125, 792-800.	2.5	40
24	Conjugate natural convection heat transfer in an air-filled rectangular cavity. International Communications in Heat and Mass Transfer, 1987, 14, 91-100.	2.9	39
25	Natural Convection Between Two Horizontal Cylinders in an Adiabatic Circular Enclosure. Journal of Heat Transfer, 1993, 115, 158-165.	1.2	39
26	Thermal and electrical performances of a water-surface floating PV integrated with double water-saturated MEPCM layers. Applied Thermal Engineering, 2016, 94, 122-132.	3.0	39
27	Thermal and hydrodynamic characteristics of divergent rectangular minichannel heat sinks. International Journal of Heat and Mass Transfer, 2018, 122, 264-274.	2.5	39
28	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.	2.9	39
29	Rayleighâ€"BÃ©nard 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.	2.9	37
30	Numerical simulation of melting of ice around a horizontal cylinder. International Journal of Heat and Mass Transfer, 1986, 29, 1359-1369.	2.5	36
31	A continuum model for transport phenomena in convective flow of solidâ€"liquid phase change material suspensions. Applied Mathematical Modelling, 2005, 29, 805-817.	2.2	34
32	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.	2.5	33
33	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.	2.5	31
34	Experimental study of cooling characteristics of water-based alumina nanofluid in a minichannel heat sink. Case Studies in Thermal Engineering, 2019, 14, 100418.	2.8	30
35	Periodic melting within a square enclosure with an oscillatory surface temperature. International Journal of Heat and Mass Transfer, 1993, 36, 725-733.	2.5	29
36	Numerical Investigation of the Thermal Management Performance of MEPCM Modules for PV Applications. Energies, 2013, 6, 3922-3936.	1.6	29

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37	Natural Convection Heat Transfer of Cold Water Within an Eccentric Horizontal Cylindrical Annulus. Journal of Heat Transfer, 1988, 110, 894-900.	1.2	27
38	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.	2.5	26
39	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.	2.5	24
40	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.	1.2	24
41	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.	3.0	23
42	Turbulent forced convection effectiveness of aluminaâ€"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.	2.9	23
43	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.	2.5	22
44	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.	0.2	21
45	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.	1.1	21
46	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.	2.9	20
47	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.	3.6	20
48	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.	2.9	19
49	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.	2.5	19
50	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.	1.1	18
51	SIMULATION OF NATURAL CONVECTION IN A VERTICAL ENCLOSURE BY USING A NEW INCOMPRESSIBLE FLOW FORMULATIONâ€"PSEUDOVORTICITY-VELOCITY FORMULATION. Numerical Heat Transfer; Part A: Applications, 1997, 31, 881-896.	1.2	18
52	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.	1.2	18
53	An experimental study of forced convection effectiveness of Al 2 O 3 -water nanofluid flowing in circular tubes. International Communications in Heat and Mass Transfer, 2017, 83, 23-29.	2.9	18
54	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.	2.5	17

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55	Thermal convection heat transfer of air/water layers enclosed in horizontal annuli with mixed boundary conditions. Heat and Mass Transfer, 1989, 24, 211-224.	0.2	16
56	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.	1.2	16
57	Laminar forced convection effectiveness of Al 2 O 3 â€"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.	2.5	15
58	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.	1.2	14
59	Application of a water-saturated MEPCM-PV for reducing winter chilling damage on aqua farms. Solar Energy, 2014, 108, 135-145.	2.9	14
60	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.	2.5	14
61	Thermal and electrical performance of a PV module integrated with double layers of water-saturated MEPCM. Applied Thermal Engineering, 2017, 123, 1120-1133.	3.0	14
62	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.	2.5	13
63	Laminar Mixed Convection of Cold Water in a Vertical Annulus With a Heated Rotating Inner Cylinder. Journal of Heat Transfer, 1992, 114, 418-424.	1.2	12
64	Thermal protection characteristics of a vertical rectangular cell filled with PCM/air layer. Heat and Mass Transfer, 1996, 31, 191-198.	1.2	12
65	HEAT TRANSFER OF SOLIDâ€"LIQUID PHASE-CHANGE MATERIAL SUSPENSIONS IN CIRCULAR PIPES: EFFECTS OF WALL CONDUCTION. Numerical Heat Transfer; Part A: Applications, 2004, 45, 171-190.	1.2	12
66	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.	2.5	11
67	Effect on Natural Convection Heat Transfer of Nanofluid in an Enclosure Due to Uncertainties of Viscosity and Thermal Conductivity. , 2007, , 833.		11
68	Transition to oscillatory natural convection of cold water in a vertical annulus. International Journal of Heat and Mass Transfer, 1998, 41, 1559-1572.	2.5	10
69	Thermal performance of an innovative curtain-wall-integrated solar heater. Energy and Buildings, 2014, 77, 416-424.	3.1	10
70	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.	2.5	10
71	Dynamic response of a thermally activated paraffin actuator. International Journal of Heat and Mass Transfer, 2016, 103, 894-899.	2.5	10
72	Experimental Study of Solidification Heat Transfer in an Open Rectangular Cavity. Journal of Heat Transfer, 1983, 105, 671-673.	1.2	9

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73	NUMERICAL SIMULATION OF THREE-DIMENSIONAL INCOMPRESSIBLE FLOW BY A NEW FORMULATION. International Journal for Numerical Methods in Fluids, 1996, 23, 1073-1084.	0.9	9
74	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.	1.6	9
75	Conjugate heat transfer simulation of a rectangular natural circulation loop. Heat and Mass Transfer, 2008, 45, 167-175.	1.2	9
76	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.	1.2	9
77	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.	2.8	8
78	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.	2.5	6
79	Conjugate natural-convection- conduction heat transfer in enclosures divided by horizontal fins. International Journal of Heat and Fluid Flow, 1993, 14, 177-184.	1.1	6
80	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.	1.2	6
81	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.	2.5	6
82	Thermal Performance of a Vertical U-Shaped Thermosyphon Containing a Phase-Change Material Suspension Fluid. Energies, 2017, 10, 974.	1.6	6
83	Outward Melting in a Cylindrical Annulus. Journal of Energy Resources Technology, Transactions of the ASME, 1986, 108, 240-245.	1.4	5
84	Natural convection in a horizontal annulus partially filled with cold water. International Journal of Heat and Mass Transfer, 1991, 34, 1371-1382.	2.5	5
85	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.	2.5	5
86	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.	2.9	5
87	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.	1.2	3
88	Thermal and Electrical Performance of a PV Module Integrated With Microencapsulated Phase Change Material. , 2013, , .		2
89	Transient Heat Transfer Between Two Horizontal Pipelines in a Heat Tracing Enclosure. Energies, 2019, 12, 1440.	1.6	2
90	Conjugate Heat Transfer Analysis of PCM Suspensions in a Circular Tube under External Cooling Convection: Wall Conduction Effects. Applied Sciences (Switzerland), 2020, 10, 2034.	1.3	2

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91	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.	1.1	1
92	AN EXPERIMENTAL STUDY OF THERMAL-CONVECTION HEAT TRANSFER IN A HORIZONTAL CONCENTRIC ANNULUS PARTIALLY FILLED WITH WATER. Experimental Heat Transfer, 1990, 3, 289-299.	2.3	1
93	Mixed convective heating of a moving plate in a parallel duct. Journal of Thermophysics and Heat Transfer, 1993, 7, 751-754.	0.9	1
94	Numerical simulation of the heat transfer characteristics of a U-shaped thermosyphon containing a PCM suspension. Applied Thermal Engineering, 2016, 108, 1076-1085.	3.0	1
95	Thermal Performance of an Indoor Oblong LED Lighting Prototype Incorporating Heat Pipes. Journal of Asian Architecture and Building Engineering, 2009, 8, 585-592.	1.2	0
96	Thermal Performance of Water-Based Suspensions of Phase Change Nanocapsules in a Natural Circulation Loop. , 2013, , .		0
97	Thermal protection characteristics of a vertical rectangular cell filled with PCM/air layer. Heat and Mass Transfer, 1996, 31, 191-198.	1.2	0