

# Somchai Wongwises

## List of Publications by Year in descending order

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264  
papers

22,370  
citations

7069

78  
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140  
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264  
all docs

264  
docs citations

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times ranked

8923  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the applications of nanofluids in solar energy. <i>International Journal of Heat and Mass Transfer</i> , 2013, 57, 582-594.	2.5	1,081
2	Measurement of temperature-dependent thermal conductivity and viscosity of TiO <sub>2</sub> -water nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2009, 33, 706-714.	1.5	700
3	Critical review of heat transfer characteristics of nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2007, 11, 512-523.	8.2	672
4	Recent advances in modeling and simulation of nanofluid flows-Part I: Fundamentals and theory. <i>Physics Reports</i> , 2019, 790, 1-48.	10.3	670
5	A critical review of convective heat transfer of nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2007, 11, 797-817.	8.2	622
6	An experimental study on the heat transfer performance and pressure drop of TiO <sub>2</sub> -water nanofluids flowing under a turbulent flow regime. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 334-344.	2.5	582
7	Heat transfer enhancement and pressure drop characteristics of TiO <sub>2</sub> -water nanofluid in a double-tube counter flow heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 2059-2067.	2.5	440
8	A review of entropy generation in nanofluid flow. <i>International Journal of Heat and Mass Transfer</i> , 2013, 65, 514-532.	2.5	434
9	Recent advances in modeling and simulation of nanofluid flows-Part II: Applications. <i>Physics Reports</i> , 2019, 791, 1-59.	10.3	389
10	A review of flow and heat transfer characteristics in curved tubes. <i>Renewable and Sustainable Energy Reviews</i> , 2006, 10, 463-490.	8.2	385
11	Nanofluid flow and heat transfer in porous media: A review of the latest developments. <i>International Journal of Heat and Mass Transfer</i> , 2017, 107, 778-791.	2.5	377
12	A review of solar-powered Stirling engines and low temperature differential Stirling engines. <i>Renewable and Sustainable Energy Reviews</i> , 2003, 7, 131-154.	8.2	371
13	Thermal conductivity of Cu/TiO <sub>2</sub> -water/EG hybrid nanofluid: Experimental data and modeling using artificial neural network and correlation. <i>International Communications in Heat and Mass Transfer</i> , 2015, 66, 100-104.	2.9	336
14	Nanofluids effects on the evaporation rate in a solar still equipped with a heat exchanger. <i>Nano Energy</i> , 2017, 36, 134-155.	8.2	326
15	An updated review on application of nanofluids in heat exchangers for saving energy. <i>Energy Conversion and Management</i> , 2019, 198, 111886.	4.4	293
16	Viscosity of nanofluids: A review of recent experimental studies. <i>International Communications in Heat and Mass Transfer</i> , 2016, 73, 114-123.	2.9	274
17	An experimental study on the effect of diameter on thermal conductivity and dynamic viscosity of Fe/water nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 1817-1824.	2.0	265
18	Heat transfer efficiency of Al <sub>2</sub> O <sub>3</sub> -MWCNT/thermal oil hybrid nanofluid as a cooling fluid in thermal and energy management applications: An experimental and theoretical investigation. <i>International Journal of Heat and Mass Transfer</i> , 2018, 117, 474-486.	2.5	263

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19	Nucleate pool boiling heat transfer of TiO <sub>2</sub> /R141b nanofluids. International Journal of Heat and Mass Transfer, 2009, 52, 1582-1588.	2.5	233
20	Effect of thermophysical properties models on the predicting of the convective heat transfer coefficient for low concentration nanofluid. International Communications in Heat and Mass Transfer, 2008, 35, 1320-1326.	2.9	211
21	Thermal conductivity modeling of MgO/EG nanofluids using experimental data and artificial neural network. Journal of Thermal Analysis and Calorimetry, 2014, 118, 287-294.	2.0	210
22	Experimental and numerical investigation of nanofluids heat transfer characteristics for application in solar heat exchangers. International Journal of Heat and Mass Transfer, 2016, 92, 1041-1052.	2.5	210
23	Thermophysical properties, heat transfer and pressure drop of COOH-functionalized multi walled carbon nanotubes/water nanofluids. International Communications in Heat and Mass Transfer, 2014, 58, 176-183.	2.9	206
24	Entropy generation analysis of graphene/alumina hybrid nanofluid in multiport minichannel heat exchanger coupled with thermoelectric cooler. International Journal of Heat and Mass Transfer, 2016, 103, 1084-1097.	2.5	202
25	Effect of sonication characteristics on stability, thermophysical properties, and heat transfer of nanofluids: A comprehensive review. Ultrasonics Sonochemistry, 2019, 58, 104701.	3.8	188
26	Experimental studies on the viscosity of TiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> nanoparticles suspended in a mixture of ethylene glycol and water for high temperature applications. Applied Energy, 2013, 111, 40-45.	5.1	186
27	Entropy generation during Al <sub>2</sub> O <sub>3</sub> /water nanofluid flow in a solar collector: Effects of tube roughness, nanoparticle size, and different thermophysical models. International Journal of Heat and Mass Transfer, 2014, 78, 64-75.	2.5	183
28	Investigation of heat transfer performance and friction factor of a counter-flow double-pipe heat exchanger using nitrogen-doped, graphene-based nanofluids. International Communications in Heat and Mass Transfer, 2016, 76, 16-23.	2.9	179
29	Performance analysis of a minichannel-based solar collector using different nanofluids. Energy Conversion and Management, 2014, 88, 129-138.	4.4	164
30	Experimental investigation on the thermal efficiency and performance characteristics of a flat plate solar collector using SiO <sub>2</sub> /EG/water nanofluids. International Communications in Heat and Mass Transfer, 2015, 65, 71-75.	2.9	163
31	Prediction of dynamic viscosity of a hybrid nano-lubricant by an optimal artificial neural network. International Communications in Heat and Mass Transfer, 2016, 76, 209-214.	2.9	163
32	Recent advances in preparation methods and thermophysical properties of oil-based nanofluids: A state-of-the-art review. Powder Technology, 2019, 352, 209-226.	2.1	163
33	Heat transfer characteristics and pressure drop of COOH-functionalized DWCNTs/water nanofluid in turbulent flow at low concentrations. International Journal of Heat and Mass Transfer, 2014, 73, 186-194.	2.5	162
34	Thermal conductivity of Al <sub>2</sub> O <sub>3</sub> /water nanofluids. Journal of Thermal Analysis and Calorimetry, 2014, 117, 675-681.	2.0	159
35	Effects of temperature and concentration on the viscosity of nanofluids made of single-wall carbon nanotubes in ethylene glycol. International Communications in Heat and Mass Transfer, 2016, 74, 108-113.	2.9	149
36	Recent advances in using nanofluids in renewable energy systems and the environmental implications of their uptake. Nano Energy, 2021, 86, 106069.	8.2	149

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37	Forced convective heat transfer of water/functionalized multi-walled carbon nanotube nanofluids in a microchannel with oscillating heat flux and slip boundary condition. <i>International Communications in Heat and Mass Transfer</i> , 2015, 68, 69-77.	2.9	145
38	Effect of volume concentration and temperature on viscosity and surface tension of graphene-water nanofluid for heat transfer applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 1399-1409.	2.0	145
39	Numerical investigation of effective parameters in convective heat transfer of nanofluids flowing under a laminar flow regime. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 4376-4388.	2.5	140
40	A comprehensive review on rheological behavior of mono and hybrid nanofluids: Effective parameters and predictive correlations. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 997-1012.	2.5	140
41	Thermodynamic analysis of a Stirling engine including dead volumes of hot space, cold space and regenerator. <i>Renewable Energy</i> , 2006, 31, 345-359.	4.3	133
42	Thermoelectric cooling of electronic devices with nanofluid in a multiport minichannel heat exchanger. <i>Experimental Thermal and Fluid Science</i> , 2016, 74, 81-90.	1.5	132
43	Experimental study of hydrocarbon mixtures to replace HFC-134a in a domestic refrigerator. <i>Energy Conversion and Management</i> , 2005, 46, 85-100.	4.4	128
44	Multi-objective optimization of nanofluid flow in double tube heat exchangers for applications in energy systems. <i>Energy</i> , 2017, 137, 160-171.	4.5	128
45	Measurement of the thermal conductivity of titania and alumina nanofluids. <i>Thermochimica Acta</i> , 2012, 545, 48-56.	1.2	126
46	Modeling of thermal conductivity of ZnO-EG using experimental data and ANN methods. <i>International Communications in Heat and Mass Transfer</i> , 2015, 63, 35-40.	2.9	126
47	First and second laws analysis of a minichannel-based solar collector using boehmite alumina nanofluids: Effects of nanoparticle shape and tube materials. <i>International Journal of Heat and Mass Transfer</i> , 2014, 78, 1166-1176.	2.5	123
48	Applications of feedforward multilayer perceptron artificial neural networks and empirical correlation for prediction of thermal conductivity of Mg(OH) <sub>2</sub> -EG using experimental data. <i>International Communications in Heat and Mass Transfer</i> , 2015, 67, 46-50.	2.9	120
49	An experimental and theoretical investigation on heat transfer capability of Mg(OH) <sub>2</sub> /MWCNT-engine oil hybrid nano-lubricant adopted as a coolant and lubricant fluid. <i>Applied Thermal Engineering</i> , 2018, 129, 577-586.	3.0	120
50	The effects of corrugation pitch on the condensation heat transfer coefficient and pressure drop of R-134a inside horizontal corrugated tube. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 2924-2931.	2.5	119
51	A numerical study of natural convection in a vertical annulus filled with gallium in the presence of magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 430, 22-28.	1.0	119
52	A review of nanorefrigerants: Flow characteristics and applications. <i>International Journal of Refrigeration</i> , 2014, 44, 125-140.	1.8	117
53	Effect of fin pitch and number of tube rows on the air side performance of herringbone wavy fin and tube heat exchangers. <i>Energy Conversion and Management</i> , 2005, 46, 2216-2231.	4.4	113
54	Nucleate pool boiling heat transfer characteristics of TiO <sub>2</sub> -water nanofluids at very low concentrations. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 992-999.	1.5	113

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55	Experimental investigation and development of new correlations for thermal conductivity of CuO/EG "water nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2015, 65, 47-51.	2.9	111
56	A review of recent advances in solar cooking technology. <i>Renewable Energy</i> , 2019, 140, 419-435.	4.3	110
57	Conceptual analysis framework development to understand barriers of nanofluid commercialization. <i>Nano Energy</i> , 2022, 92, 106736.	8.2	106
58	Thermal conductivity measurement of spinel-type ferrite MnFe <sub>2</sub> O <sub>4</sub> nanofluids in the presence of a uniform magnetic field. <i>Journal of Molecular Liquids</i> , 2017, 230, 121-128.	2.3	105
59	AN EXPERIMENTAL STUDY ON THE IN-TUBE CONVECTIVE HEAT TRANSFER COEFFICIENTS IN A SPIRAL COIL HEAT EXCHANGER. <i>International Communications in Heat and Mass Transfer</i> , 2002, 29, 797-809.	2.9	103
60	Natural convection of silica nanofluids in square and triangular enclosures: Theoretical and experimental study. <i>International Journal of Heat and Mass Transfer</i> , 2016, 99, 792-804.	2.5	103
61	Evaporation heat transfer and pressure drop of HFC-134a in a helically coiled concentric tube-in-tube heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 658-670.	2.5	101
62	Efficiency of ferromagnetic nanoparticles suspended in ethylene glycol for applications in energy devices: Effects of particle size, temperature, and concentration. <i>International Communications in Heat and Mass Transfer</i> , 2014, 58, 138-146.	2.9	100
63	Experimental investigation on the performance of the refrigeration cycle using a two-phase ejector as an expansion device. <i>International Journal of Refrigeration</i> , 2004, 27, 587-594.	1.8	98
64	Comparison of the effects of measured and computed thermophysical properties of nanofluids on heat transfer performance. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 616-624.	1.5	97
65	Heat transfer performance of screen mesh wick heat pipes using silver "water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2013, 60, 201-209.	2.5	94
66	Mixed-convection flow and heat transfer in an inclined cavity equipped to a hot obstacle using nanofluids considering temperature-dependent properties. <i>International Journal of Heat and Mass Transfer</i> , 2015, 85, 656-666.	2.5	94
67	Effect of induced electric field on magneto-natural convection in a vertical cylindrical annulus filled with liquid potassium. <i>International Journal of Heat and Mass Transfer</i> , 2015, 90, 418-426.	2.5	94
68	Condensation heat transfer and pressure drop of HFC-134a in a helically coiled concentric tube-in-tube heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 4386-4398.	2.5	92
69	Flow pattern, void fraction and pressure drop of two-phase air "water flow in a horizontal circular micro-channel. <i>Experimental Thermal and Fluid Science</i> , 2008, 32, 748-760.	1.5	92
70	Review on the recent progress in the preparation and stability of graphene-based nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 1145-1172.	2.0	92
71	Entropy generation between two vertical cylinders in the presence of MHD flow subjected to constant wall temperature. <i>International Communications in Heat and Mass Transfer</i> , 2013, 44, 87-92.	2.9	89
72	Applications of eco-friendly refrigerants and nanorefrigerants: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 96, 91-99.	8.2	89

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73	Thermal performance of miniature loop heat pipe with grapheneâ€“water nanofluid. International Journal of Heat and Mass Transfer, 2016, 93, 957-968.	2.5	88
74	Multi-objective optimization of natural convection in a cylindrical annulus mold under magnetic field using particle swarm algorithm. International Communications in Heat and Mass Transfer, 2015, 60, 13-20.	2.9	87
75	The effects of tape insert material on the flow and heat transfer in a nanofluid-based double tube heat exchanger: Two-phase mixture model. International Journal of Mechanical Sciences, 2019, 156, 397-409.	3.6	87
76	Measurement of thermal conductivity of grapheneâ€“water nanofluid at below and above ambient temperatures. International Communications in Heat and Mass Transfer, 2016, 70, 66-74.	2.9	86
77	Experimental study on the thermal conductivity of water-based CNT-SiO <sub>2</sub> hybrid nanofluids. International Communications in Heat and Mass Transfer, 2018, 99, 18-25.	2.9	85
78	A comparative study on the performance of HFO-1234yf and HFC-134a as an alternative in automotive air conditioning systems. Applied Thermal Engineering, 2017, 110, 1091-1100.	3.0	83
79	Experimental study on R-134a refrigeration system using a two-phase ejector as an expansion device. Applied Thermal Engineering, 2008, 28, 467-477.	3.0	82
80	Second law analysis of a nanofluid-based solar collector using experimental data. Journal of Thermal Analysis and Calorimetry, 2016, 126, 617-625.	2.0	82
81	Convective heat transfer of nanofluids with correlations. Particology, 2011, 9, 626-631.	2.0	81
82	Irreversibility analysis of a vertical annulus using TiO <sub>2</sub> /water nanofluid with MHD flow effects. International Journal of Heat and Mass Transfer, 2013, 64, 671-679.	2.5	81
83	Artificial neural network modeling of nanofluid flow in a microchannel heat sink using experimental data. International Communications in Heat and Mass Transfer, 2017, 86, 25-31.	2.9	80
84	A comparative experimental study on the natural convection heat transfer of different metal oxide nanopowders suspended in turbine oil inside an inclined cavity. International Journal of Heat and Mass Transfer, 2014, 73, 231-238.	2.5	79
85	Simultaneous heat and mass transfer characteristics for wavy fin-and-tube heat exchangers under dehumidifying conditions. International Journal of Heat and Mass Transfer, 2006, 49, 132-143.	2.5	77
86	Performance characteristics of a microchannel heat sink using TiO <sub>2</sub> /water nanofluid and different thermophysical models. International Communications in Heat and Mass Transfer, 2013, 47, 98-104.	2.9	76
87	Measurement and Correlation of the Viscosity of Water-Based Al <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> Nanofluids in High Temperatures and Comparisons with Literature Reports. Journal of Dispersion Science and Technology, 2013, 34, 1697-1703.	1.3	75
88	Numerical investigation on the heat transfer and flow in the mini-fin heat sink for CPU. International Communications in Heat and Mass Transfer, 2009, 36, 834-840.	2.9	74
89	Dispersion of ZnO Nanoparticles in a Mixture of Ethylene Glycolâ€“Water, Exploration of Temperature-Dependent Density, and Sensitivity Analysis. Journal of Cluster Science, 2013, 24, 1103-1114.	1.7	74
90	Flow pattern, pressure drop and void fraction of two-phase gasâ€“liquid flow in an inclined narrow annular channel. Experimental Thermal and Fluid Science, 2006, 30, 345-354.	1.5	73

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91	Experimental investigation of hydrocarbon mixtures to replace HFC-134a in an automotive air conditioning system. <i>Energy Conversion and Management</i> , 2006, 47, 1644-1659.	4.4	73
92	Performance of low-temperature differential Stirling engines. <i>Renewable Energy</i> , 2007, 32, 547-566.	4.3	72
93	Experimental study on two-phase condensation heat transfer and pressure drop of R-134a flowing in a dimpled tube. <i>International Journal of Heat and Mass Transfer</i> , 2017, 106, 437-448.	2.5	72
94	An exergy analysis on the performance of a counterflow wet cooling tower. <i>Applied Thermal Engineering</i> , 2007, 27, 910-917.	3.0	71
95	Comparative study on heat transfer characteristics of sintered and mesh wick heat pipes using CuO nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014, 57, 208-215.	2.9	71
96	Modeling and optimization of thermal conductivity and viscosity of MnFe <sub>2</sub> O <sub>4</sub> nanofluid under magnetic field using an ANN. <i>Scientific Reports</i> , 2017, 7, 17369.	1.6	70
97	Design of a heat exchanger working with organic nanofluids using multi-objective particle swarm optimization algorithm and response surface method. <i>International Journal of Heat and Mass Transfer</i> , 2018, 119, 922-930.	2.5	70
98	EXPERIMENTAL STUDY ON DRYING OF CHILLI IN A COMBINED MICROWAVE-VACUUM-ROTARY DRUM DRYER. <i>Drying Technology</i> , 2002, 20, 2067-2079.	1.7	69
99	The effects of channel diameter on flow pattern, void fraction and pressure drop of two-phase air-water flow in circular micro-channels. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 454-462.	1.5	68
100	Experimental investigation on the viscosity characteristics of water based SiO <sub>2</sub> -graphite hybrid nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2018, 97, 30-38.	2.9	68
101	Investigation on power output of the gamma-configuration low temperature differential Stirling engines. <i>Renewable Energy</i> , 2005, 30, 465-476.	4.3	67
102	A review of heating/cooling processes using nanomaterials suspended in refrigerants and lubricants. <i>International Journal of Heat and Mass Transfer</i> , 2020, 153, 119611.	2.5	67
103	Effect of throat diameters of the ejector on the performance of the refrigeration cycle using a two-phase ejector as an expansion device. <i>International Journal of Refrigeration</i> , 2007, 30, 601-608.	1.8	66
104	Natural convection of Al <sub>2</sub> O <sub>3</sub> /water nanofluid in a square cavity: Effects of heterogeneous heating. <i>International Journal of Heat and Mass Transfer</i> , 2014, 74, 391-402.	2.5	66
105	Heat Transfer, Pressure Drop, and Entropy Generation in a Solar Collector Using SiO <sub>2</sub> /Water Nanofluids: Effects of Nanoparticle Size and pH. <i>Journal of Heat Transfer</i> , 2015, 137, .	1.2	66
106	Investigation of a computer CPU heat sink under laminar forced convection using a structural stability method. <i>International Journal of Heat and Mass Transfer</i> , 2019, 134, 1218-1226.	2.5	66
107	Flow pattern and heat transfer characteristics of R-134a refrigerant during flow boiling in a horizontal circular mini-channel. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 4023-4038.	2.5	65
108	An experimental investigation on the heat transfer and pressure drop characteristics of nanofluid flowing in microchannel heat sink with multiple zigzag flow channel structures. <i>Experimental Thermal and Fluid Science</i> , 2017, 87, 30-39.	1.5	65

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109	Condensation heat transfer and flow characteristics of R-134a flowing through corrugated tubes. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 2673-2682.	2.5	63
110	Effect of replacing nanofluid instead of water on heat transfer in a channel with extended surfaces under a magnetic field. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 1249-1271.	1.6	63
111	Effect of nanoparticle shape on the performance of thermal systems utilizing nanofluids: A critical review. <i>Journal of Molecular Liquids</i> , 2021, 321, 114430.	2.3	63
112	Performance of the two-phase ejector expansion refrigeration cycle. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 4282-4286.	2.5	62
113	Effect of number of tube rows on the air-side performance of crimped spiral fin-and-tube heat exchanger with a multipass parallel and counter cross-flow configuration. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 1403-1411.	2.5	62
114	An experimental investigation on heat transfer characteristics of graphite-SiO <sub>2</sub> /water hybrid nanofluid flow in horizontal tube with various quad-channel twisted tape inserts. <i>International Communications in Heat and Mass Transfer</i> , 2019, 107, 1-13.	2.9	61
115	Unconfined laminar nanofluid flow and heat transfer around a square cylinder. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 1475-1485.	2.5	60
116	Optimization and sensitivity analysis of magneto-hydrodynamic natural convection nanofluid flow inside a square enclosure using response surface methodology. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 1031-1045.	2.0	60
117	A study of the heat transfer characteristics of a compact spiral coil heat exchanger under wet-surface conditions. <i>Experimental Thermal and Fluid Science</i> , 2005, 29, 511-521.	1.5	59
118	Flow Patterns and Energy Dissipation over Various Stepped Chutes. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2006, 132, 70-76.	0.6	59
119	Performance of a twin power piston low temperature differential Stirling engine powered by a solar simulator. <i>Solar Energy</i> , 2007, 81, 884-895.	2.9	59
120	Experimental study on viscosity of spinel-type manganese ferrite nanofluid in attendance of magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 428, 457-463.	1.0	59
121	Condensation heat transfer and pressure drop characteristics of R-134a flowing through dimpled tubes with different helical and dimpled pitches. <i>International Journal of Heat and Mass Transfer</i> , 2018, 121, 620-631.	2.5	57
122	Latest developments in boiling critical heat flux using nanofluids: A concise review. <i>International Communications in Heat and Mass Transfer</i> , 2018, 98, 59-66.	2.9	57
123	Two-phase flow pattern maps for vertical upward gas-liquid flow in mini-gap channels. <i>International Journal of Multiphase Flow</i> , 2004, 30, 225-236.	1.6	54
124	Finite circular fin method for heat and mass transfer characteristics for plain fin-and-tube heat exchangers under fully and partially wet surface conditions. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 552-565.	2.5	52
125	A four power-piston low-temperature differential Stirling engine using simulated solar energy as a heat source. <i>Solar Energy</i> , 2008, 82, 493-500.	2.9	52
126	Effect of filling ratio on the performance of a novel miniature loop heat pipe having different diameter transport lines. <i>Applied Thermal Engineering</i> , 2016, 106, 588-600.	3.0	52



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127	Experimental study on the thermal performance and heat transfer characteristics of solar parabolic trough collector using Al <sub>2</sub> O <sub>3</sub> nanofluids. Environmental Progress and Sustainable Energy, 2018, 37, 1149-1159.	1.3	52
128	Flow characteristics of pure refrigerants and refrigerant mixtures in adiabatic capillary tubes. Applied Thermal Engineering, 2001, 21, 845-861.	3.0	51
129	A comparison of the heat transfer performance and pressure drop of nanofluid-cooled heat sinks with different miniature pin fin configurations. Experimental Thermal and Fluid Science, 2015, 69, 111-118.	1.5	51
130	An experimental study on the thermal and hydraulic performances of nanofluids flow in a miniature circular pin fin heat sink. Experimental Thermal and Fluid Science, 2015, 66, 28-35.	1.5	50
131	Effect of magnetic field on laminar forced convective heat transfer of MWCNT-Fe <sub>3</sub> O <sub>4</sub> /water hybrid nanofluid in a heated tube. Journal of Thermal Analysis and Calorimetry, 2019, 137, 1809-1825.	2.0	50
132	Investigation on the jet liquid impingement heat transfer for the central processing unit of personal computers. International Communications in Heat and Mass Transfer, 2010, 37, 822-826.	2.9	49
133	Entropy generation analysis of a miniature loop heat pipe with graphene-water nanofluid: Thermodynamics model and experimental study. International Journal of Heat and Mass Transfer, 2017, 106, 407-421.	2.5	49
134	Thermophysical properties of CNT and CNT/Al <sub>2</sub> O <sub>3</sub> hybrid nanofluid. Micro and Nano Letters, 2018, 13, 617-621.	0.6	49
135	Experimental investigation of condensation heat transfer and pressure drop of R-134a flowing inside dimpled tubes with different dimpled depths. International Journal of Heat and Mass Transfer, 2019, 128, 783-793.	2.5	49
136	Optimum absorber temperature of a once-reflecting full conical concentrator of a low temperature differential Stirling engine. Renewable Energy, 2005, 30, 1671-1687.	4.3	48
137	Two-phase flow patterns and heat transfer characteristics of R134a refrigerant during flow boiling in a single rectangular micro-channel. Experimental Thermal and Fluid Science, 2015, 66, 36-45.	1.5	48
138	Experimental Investigation on a Thermal Model for a Basin Solar Still with an External Reflector. Energies, 2017, 10, 18.	1.6	48
139	A comparison of flow characteristics of refrigerants flowing through adiabatic straight and helical capillary tubes. International Communications in Heat and Mass Transfer, 2011, 38, 398-404.	2.9	47
140	Effect of fin pitches on the air-side performance of L-footed spiral fin-and-tube heat exchangers. International Journal of Heat and Mass Transfer, 2013, 59, 75-82.	2.5	46
141	Two-phase condensation heat transfer coefficients of HFC-134a at high mass flux in smooth and micro-fin tubes. International Communications in Heat and Mass Transfer, 2003, 30, 577-590.	2.9	45
142	Entropy Generation Between Two Rotating Cylinders with Magnetohydrodynamic Flow Using Nanofluids. Journal of Thermophysics and Heat Transfer, 2013, 27, 161-169.	0.9	45
143	The effect of multi-wall carbon nanotubes/turbine meter oil nanofluid concentration on the thermophysical properties of lubricants. Powder Technology, 2020, 367, 133-142.	2.1	45
144	Heat Transfer Performance of a Glass Thermosyphon Using Graphene-Acetone Nanofluid. Journal of Heat Transfer, 2015, 137, .	1.2	42

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145	Experimental investigation of evaporation heat transfer coefficient and pressure drop of R-410A in a multiport mini-channel. <i>International Journal of Refrigeration</i> , 2009, 32, 124-137.	1.8	41
146	Effect of fin pitches on the air-side performance of crimped spiral fin-and-tube heat exchangers with a multipass parallel and counter cross-flow configuration. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 2234-2240.	2.5	40
147	The difference in flow pattern, heat transfer and pressure drop characteristics of mini-channel flow boiling in horizontal and vertical orientations. <i>International Journal of Multiphase Flow</i> , 2018, 101, 97-112.	1.6	40
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