

Nandy Putra

List of Publications by Citations

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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.

106
papers

5,080
citations

20
h-index

71
g-index

133
ext. papers

5,738
ext. citations

2.2
avg, IF

5.79
L-index

#	Paper	IF	Citations
106	Temperature Dependence of Thermal Conductivity Enhancement for Nanofluids. <i>Journal of Heat Transfer</i> , 2003 , 125, 567-574	1.8	1723
105	Pool boiling characteristics of nano-fluids. <i>International Journal of Heat and Mass Transfer</i> , 2003 , 46, 851-862	4.92	804
104	Natural convection of nano-fluids. <i>Heat and Mass Transfer</i> , 2003 , 39, 775-784	2.2	736
103	Pool boiling of nano-fluids on horizontal narrow tubes. <i>International Journal of Multiphase Flow</i> , 2003 , 29, 1237-1247	3.6	214
102	Thermal properties of beeswax/graphene phase change material as energy storage for building applications. <i>Applied Thermal Engineering</i> , 2017 , 112, 273-280	5.8	197
101	Experiment and analysis for non-Fourier conduction in materials with non-homogeneous inner structure. <i>International Journal of Thermal Sciences</i> , 2003 , 42, 541-552	4.1	139
100	Experimental investigation on performance of lithium-ion battery thermal management system using flat plate loop heat pipe for electric vehicle application. <i>Applied Thermal Engineering</i> , 2016 , 99, 784-789	5.8	117
99	Phase Change Materials (PCM) for Solar Energy Usages and Storage: An Overview. <i>Energies</i> , 2019 , 12, 3167	3.1	108
98	Thermal performance of screen mesh wick heat pipes with nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2012 , 40, 10-17	3	104
97	Application of nanofluids to a heat pipe liquid-block and the thermoelectric cooling of electronic equipment. <i>Experimental Thermal and Fluid Science</i> , 2011 , 35, 1274-1281	3	104
96	Titanium dioxide nanofluids for heat transfer applications. <i>Experimental Thermal and Fluid Science</i> , 2014 , 52, 19-29	3	87
95	Experimental investigation of thermal conductivity and heat pipe thermal performance of ZnO nanofluids. <i>International Journal of Thermal Sciences</i> , 2013 , 63, 125-132	4.1	84
94	Preparation of beeswax/multi-walled carbon nanotubes as novel shape-stable nanocomposite phase-change material for thermal energy storage. <i>Journal of Energy Storage</i> , 2019 , 21, 32-39	7.8	67
93	Electric motor thermal management system using L-shaped flat heat pipes. <i>Applied Thermal Engineering</i> , 2017 , 126, 1156-1163	5.8	48
92	Performance of beeswax phase change material (PCM) and heat pipe as passive battery cooling system for electric vehicles. <i>Case Studies in Thermal Engineering</i> , 2020 , 21, 100655	5.6	46
91	Thermal performance of biomaterial wick loop heat pipes with water-base Al ₂ O ₃ nanofluids. <i>International Journal of Thermal Sciences</i> , 2014 , 76, 128-136	4.1	41
90	The characterization of a cascade thermoelectric cooler in a cryosurgery device. <i>Cryogenics</i> , 2010 , 50, 759-764	1.8	35

89	Characterization of the thermal stability of RT 22 HC/graphene using a thermal cycle method based on thermoelectric methods. <i>Applied Thermal Engineering</i> , 2017 , 124, 62-70	5.8	28
88	Investigation of the Thermal Performance of a Vertical Two-Phase Closed Thermosyphon as a Passive Cooling System for a Nuclear Reactor Spent Fuel Storage Pool. <i>Nuclear Engineering and Technology</i> , 2017 , 49, 476-483	2.6	28
87	Thermal Properties of Beeswax/CuO Nano Phase-change Material Used for Thermal Energy Storage 2016 , 7, 244		23
86	Passive cooling system in a nuclear spent fuel pool using a vertical straight wickless-heat pipe. <i>International Journal of Thermal Sciences</i> , 2018 , 126, 162-171	4.1	19
85	Sensitivity analysis of steam power plant-binary cycle. <i>Energy</i> , 2010 , 35, 3578-3586	7.9	19
84	Energy-Related CO2 Emissions Growth in ASEAN Countries: Trends, Drivers and Policy Implications. <i>Energies</i> , 2019 , 12, 4650	3.1	18
83	Experimental investigation of the operating characteristics of a hybrid loop heat pipe using pump assistance. <i>Applied Thermal Engineering</i> , 2018 , 130, 10-16	5.8	15
82	Improvement of heat pipe performance through integration of a coral biomaterial wick structure into the heat pipe of a CPU cooling system. <i>Heat and Mass Transfer</i> , 2017 , 53, 1163-1174	2.2	12
81	Experimental analysis of a multistage direct-indirect evaporative cooler using a straight heat pipe. <i>Applied Thermal Engineering</i> , 2020 , 171, 115133	5.8	11
80	Characteristics of Screen Mesh Wick Heat Pipe with Nano-fluid as Passive Cooling System. <i>Atom Indonesia</i> , 2013 , 39, 24	1.3	11
79	Visualization of the boiling phenomenon inside a heat pipe using neutron radiography. <i>Experimental Thermal and Fluid Science</i> , 2015 , 66, 13-27	3	10
78	An Experimental Study on Thermal Performance of Nano Fluids in Microchannel Heat Exchanger 2014 , 4, 167		10
77	Synthesis of hybrid nanofluid with two-step method. <i>E3S Web of Conferences</i> , 2018 , 67, 03057	0.5	10
76	Thermal performance of Pulsating Heat Pipe on Electric Motor as Cooling Application. <i>E3S Web of Conferences</i> , 2018 , 67, 03035	0.5	10
75	AN EXPERIMENTAL INVESTIGATION OF POOL BOILING ON NARROW HORIZONTAL TUBES. <i>Experimental Heat Transfer</i> , 2004 , 17, 131-146	2.4	9
74	The Effect of CuO-Water Nanofluid and Biomaterial Wick on Loop Heat Pipe Performance. <i>Advanced Materials Research</i> , 2014 , 875-877, 356-361	0.5	8
73	The Utilization of Heat Pipe on Cold Surface of Thermoelectric with Low-Temperature Waste Heat. <i>Applied Mechanics and Materials</i> , 2013 , 302, 410-415	0.3	8
72	Utilizing heat pipe heat exchanger to reduce the energy consumption of airborne infection isolation hospital room HVAC system. <i>Journal of Building Engineering</i> , 2021 , 35, 102116	5.2	8

71	Experimental study on the effect of gap size to CCFL and CHF in a vertical of narrow rectangular channel during quenching process. <i>Annals of Nuclear Energy</i> , 2014 , 72, 391-400	1.7	7
70	A Review of Improvements to the Liquid Collection System Used in the Pyrolysis Process for Producing Liquid Smoke 2017 , 8, 1197		7
69	Experimental Study of Heat Pipe Heat Exchanger Multi Fin for Energy Efficiency Effort in Operating Room Air System 2018 , 9, 422		7
68	Experimental Investigation on Contact Angle of Sintered Copper Powder Wick. <i>Applied Mechanics and Materials</i> , 2016 , 819, 575-579	0.3	6
67	Effect of Concentration and Loading Fluid of Nanofluids on the Thermal Resistance of Sintered Powder Wick Heat Pipe. <i>Advanced Materials Research</i> , 2013 , 651, 728-735	0.5	6
66	Application of Al ₂ O ₃ Nanofluid on Sintered Copper-Powder Vapor Chamber for Electronic Cooling. <i>Advanced Materials Research</i> , 2013 , 789, 423-428	0.5	6
65	Thermal properties of paraffin based nano-phase change material as thermal energy storage. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 105, 012028	0.3	6
64	Development of a novel thermoelectric module based device for thermal stability measurement of phase change materials. <i>Journal of Energy Storage</i> , 2019 , 22, 331-335	7.8	5
63	Influence of temperature on conversion of plastics waste (polystyrene) to liquid oil using pyrolysis process. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 105, 012033	0.3	5
62	Characterization of shape-stabilized phase change material using beeswax and functionalized multi-walled carbon nanotubes. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 105, 012042	0.3	5
61	Simulation of Heat Flux Effect in Straight Heat Pipe as Passive Residual Heat Removal System in Light Water Reactor Using RELAP5 Mod 3.2. <i>Applied Mechanics and Materials</i> , 2016 , 819, 122-126	0.3	5
60	Simulation of Wickless-Heat Pipe as Passive Cooling System in Nuclear Spent Fuel Pool Using RELAP5/MOD3.2. <i>International Journal on Advanced Science, Engineering and Information Technology</i> , 2017 , 7, 836	1.6	5
59	New method of thermal cycling stability test of phase change material. <i>MATEC Web of Conferences</i> , 2017 , 101, 01007	0.3	4
58	Experimental study on sintered powder wick loop heat pipe 2012 ,		4
57	Multi-stage heat-pipe heat exchanger for improving energy efficiency of the HVAC system in a hospital operating room 1. <i>International Journal of Low-Carbon Technologies</i> , 2021 , 16, 259-267	2.8	4
56	Monoclinic cerium(III) picrate tetraethylene glycol complex: design, synthesis and biological evaluation as anti-amoebic activity against <i>Acanthamoeba</i> sp.. <i>Journal of Materials Science</i> , 2020 , 55, 9795-9811	4.3	3
55	The Application of U-shape Heat Pipe Heat Exchanger to Reduce Relative Humidity for Energy Conservation in Heating, Ventilation, and Air Conditioning (HVAC) Systems 2019 , 10, 1202		3
54	Tackling the COVID-19 Pandemic: Managing the Cause, Spread, and Impact 2020 , 11, 209		3

53	SIMULATION OF OPERATIONAL CONDITIONS OF FASSIP-02 NATURAL CIRCULATION COOLING SYSTEM EXPERIMENTAL LOOP 2018 , 19, 40		3
52	Investigation on vertical straight wickless-heat pipe as gamma irradiator passive cooling system 2020 ,		3
51	Experimental study on utilization of heat pipe heat exchanger for energy conservation of air conditioning system in a hospitals and its techno-economic feasibility 2020 ,		3
50	Design, synthesis and antiameobic activity of dysprosium-based nanoparticles using contact lenses as carriers against <i>Acanthamoeba</i> sp. <i>Acta Ophthalmologica</i> , 2021 , 99, e178-e188	3-7	3
49	Thermal Management of Electric Vehicle Batteries Using Heat Pipe and Phase Change Materials. <i>E3S Web of Conferences</i> , 2018 , 67, 03034	0.5	3
48	Estimation of natural circulation flow based on temperature in the FASSIP-02 large-scale test loop facility. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 105, 012091	0.3	3
47	Numerical study on natural circulation characteristics in FASSIP-02 experimental facility using RELAP5 code. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 105, 012090	0.3	3
46	Battery thermal management system using loop heat pipe with LTP copper capillary wick. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 105, 012045	0.3	3
45	The Fabrication and Testing Development of Heat Pipe Wicks: A Review 2019 ,		2
44	Study of heat transfer in a water cooling tank with c-shaped heat exchanger and straight heat pipe under natural circulation 2019 ,		2
43	Experimental study on a hybrid loop heat pipe. <i>MATEC Web of Conferences</i> , 2017 , 101, 03011	0.3	2
42	Experimental study of hybrid loop heat pipe using pump assistance for high heat flux system. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 105, 012011	0.3	2
41	Development of hybrid loop heat pipe using pump assistance for cooling application on high heat flux device. <i>Journal of Mechanical Science and Technology</i> , 2019 , 33, 3685-3694	1.6	2
40	Influence of stack plate thickness and voltage input on the performance of loudspeaker-driven thermoacoustic refrigerator. <i>Journal of Physics: Conference Series</i> , 2013 , 423, 012050	0.3	2
39	Pool Boiling of Nanofluids in Vertical Porous Media. <i>Applied Mechanics and Materials</i> , 2013 , 388, 18-22	0.3	2
38	Vapor Chamber Utilization for Rapid Cooling in the Conventional Plastic Injection Molding Process 2017 , 8, 690		2
37	An Experimental Study of the Vapor Temperature in the Reaction Zone for Producing Liquid from Camphor Wood in a Non-sweeping Gas Fixed-bed Pyrolysis Reactor 2018 , 9, 1236		2
36	Study of Heat Pipe Utilizing Low-Temperature Geothermal Energy and Zeolite-A for Tea Leaves Withering Process. <i>Evergreen</i> , 2020 , 7, 221-227	1.6	2

35	Measurement of PCM-concrete composites thermal properties for energy conservation in building material 2020 ,		2
34	Thermal properties of sonicated graphene in coconut oil as a phase change material for energy storage in building applications ¹ . <i>International Journal of Low-Carbon Technologies</i> , 2020 , 15, 629-636	2.8	2
33	Fabrication of Lotus-Type Porous Copper Using Slip Casting and Sintering Techniques for Heat Pipe Applications. <i>Applied Mechanics and Materials</i> , 2016 , 819, 601-605	0.3	2
32	Analysis of the use of thermoelectric generator and heat pipe for waste heat utilization. <i>E3S Web of Conferences</i> , 2018 , 67, 02057	0.5	2
31	Utilization of U-shaped finned heat pipe heat exchanger in energy-efficient HVAC systems. <i>Thermal Science and Engineering Progress</i> , 2021 , 25, 100984	3.6	2
30	Experimental investigation on phase change materials as heating element for non-electric neonatal incubator 2017 ,		1
29	Chiller performance study with refrigerant R290 2019 ,		1
28	Effect of graphenenano-fluid on heat pipe thermal performance for passive heat removal in nuclear spent fuel storage pool. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 105, 012030	0.3	1
27	Interfacial momentum and two-phase turbulence of the multigroups two-phase bubbly flow 2018 ,		1
26	Characterization of capillary pumping amount in novel sintered zeolites and hybrid zeolite-Cu for heat pipe applications. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 145, 118759	4.9	1
25	Performance of Thermoelectrics and Heat Pipes Refrigerator. <i>Applied Mechanics and Materials</i> , 2013 , 388, 52-57	0.3	1
24	Phase change material (PCM) with shaped stabilized method for thermal energy storage: A review 2020 ,		1
23	Investigation on polyethylene terephthalate pyrolysis products using straight heat pipe as passive cooling system 2020 ,		1
22	An experimental analysis of diesel fuel produced from HDPE (high-density polyethylene) waste using thermal and catalytic pyrolysis with passive heat pipe cooling system. <i>Thermal Science and Engineering Progress</i> , 2021 , 23, 100917	3.6	1
21	Thermal performance of evacuated tube heat pipe solar collector 2016 ,		1
20	Withering of tea leaves using heat pipe heat exchanger by utilizing low-temperature geothermal energy. <i>International Journal of Low-Carbon Technologies</i> , 2021 , 16, 146-155	2.8	1
19	Thinking Ecology for Architecture: Exploration of Cool Pocket. <i>E3S Web of Conferences</i> , 2018 , 67, 04041	0.5	1
18	Experimental study on utilization of heat pipe heat exchanger for improving efficiency of clean room air system in hospitals. <i>E3S Web of Conferences</i> , 2018 , 67, 02056	0.5	1

17	Preliminary investigation of wickless-heat pipe as passive cooling system in emergency cooling tank 2018 ,		1
16	A preliminary investigation on visualization of oscillating heat pipe with non-destructive test. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 105, 012074	0.3	1
15	Preliminary investigation of natural circulation stability in FASSIP-01 experimental facility using RELAP5 code 2018 ,		1
14	Modelling of electric characteristics of 150-watt peak solar panel using Boltzmann sigmoid function under various temperature and irradiance. <i>Journal of Physics: Conference Series</i> , 2018 , 953, 012048	0.3	1
13	Preliminary Investigation on Natural Circulation Flow using CFD and Calculation Base on Experimental Data Pre-FASSIP-02. <i>Journal of Physics: Conference Series</i> , 2019 , 1198, 022073	0.3	0
12	Enhancing the performance of conventional coffee beans drying with low-temperature geothermal energy by applying HPHE: An experimental study. <i>Open Agriculture</i> , 2021 , 6, 807-818	1.4	0
11	Harvesting the low-temperature geothermal energy for agricultural drying with two-phase closed thermosyphon: An experimental study. <i>Geothermics</i> , 2022 , 100, 102346	4.3	0
10	Non-dimensional analysis for heat pipe characteristics in the heat pipe heat exchanger as energy recovery device in the HVAC systems. <i>Thermal Science and Engineering Progress</i> , 2021 , 101122	3.6	0
9	Experimental analysis of natural wax as phase change material by thermal cycling test using thermoelectric system. <i>Journal of Energy Storage</i> , 2021 , 40, 102703	7.8	0
8	The use of beeswax as heating element in non-electric infant incubator. <i>Journal of Medical Engineering and Technology</i> , 2017 , 41, 593-599	1.8	
7	Boiling Phenomenon of Tabulate Biomaterial Wick Heat Pipe. <i>Applied Mechanics and Materials</i> , 2015 , 776, 289-293	0.3	
6	Analysis of CuO-Water Nanofluid Application on Heat Pipe. <i>Applied Mechanics and Materials</i> , 2014 , 590, 234-238	0.3	
5	Investigation on Thermoacoustic Cooling Device with Variation in Stack Plate Size and Input Acoustic Energy. <i>Springer Series in Materials Science</i> , 2015 , 205-220	0.9	
4	Experimental Study on Counter Current Flow Limitation Based on Variation of Gap Size in Narrow Rectangular Channel during Quenching Process. <i>Applied Mechanics and Materials</i> , 2014 , 590, 613-617	0.3	
3	Thermoelectric Heat Pipe-Based Refrigerator: System Development and Comparison with Thermoelectric, Absorption and Vapor Compression Refrigerators. <i>Advanced Materials Research</i> , 2013 , 651, 736-744	0.5	
2	Application of biomachining on copper for a minichannel heat exchanger. <i>Thermal Science and Engineering Progress</i> , 2021 , 26, 101128	3.6	
1	Effect of Al ₂ O ₃ and TiO ₂ nano-coated wick on the thermal performance of heat pipe. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	