Nandy Putra

List of Publications by Year
in descending order

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133 papers	6,489 citations	279798 23 h-index	66911 78 g-index
133 all docs	133 docs citations	133 times ranked	4212 citing authors

#	Article	IF	Citations
1	Temperature Dependence of Thermal Conductivity Enhancement for Nanofluids. Journal of Heat Transfer, 2003, 125, 567-574.	2.1	2,030
2	Pool boiling characteristics of nano-fluids. International Journal of Heat and Mass Transfer, 2003, 46, 851-862.	4.8	895
3	Natural convection of nano-fluids. Heat and Mass Transfer, 2003, 39, 775-784.	2.1	843
4	Thermal properties of beeswax/graphene phase change material as energy storage for building applications. Applied Thermal Engineering, 2017, 112, 273-280.	6.0	274
5	Pool boiling of nano-fluids on horizontal narrow tubes. International Journal of Multiphase Flow, 2003, 29, 1237-1247.	3.4	240
6	Phase Change Materials (PCM) for Solar Energy Usages and Storage: An Overview. Energies, 2019, 12, 3167.	3.1	197
7	Experimental investigation on performance of lithium-ion battery thermal management system using flat plate loop heat pipe for electric vehicle application. Applied Thermal Engineering, 2016, 99, 784-789.	6.0	184
8	Experiment and analysis for non-Fourier conduction in materials with non-homogeneous inner structure. International Journal of Thermal Sciences, 2003, 42, 541-552.	4.9	170
9	Application of nanofluids to a heat pipe liquid-block and the thermoelectric cooling of electronic equipment. Experimental Thermal and Fluid Science, 2011, 35, 1274-1281.	2.7	137
10	Thermal performance of screen mesh wick heat pipes with nanofluids. Experimental Thermal and Fluid Science, 2012, 40, 10-17.	2.7	130
11	Preparation of beeswax/multi-walled carbon nanotubes as novel shape-stable nanocomposite phase-change material for thermal energy storage. Journal of Energy Storage, 2019, 21, 32-39.	8.1	109
12	Titanium dioxide nanofluids for heat transfer applications. Experimental Thermal and Fluid Science, 2014, 52, 19-29.	2.7	103
13	Experimental investigation of thermal conductivity and heat pipe thermal performance of ZnO nanofluids. International Journal of Thermal Sciences, 2013, 63, 125-132.	4.9	100
14	Performance of beeswax phase change material (PCM) and heat pipe as passive battery cooling system for electric vehicles. Case Studies in Thermal Engineering, 2020, 21, 100655.	5.7	95
15	Electric motor thermal management system using L-shaped flat heat pipes. Applied Thermal Engineering, 2017, 126, 1156-1163.	6.0	91
16	Thermal performance of biomaterial wick loop heat pipes with water-base Al2O3 nanofluids. International Journal of Thermal Sciences, 2014, 76, 128-136.	4.9	51
17	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. Nuclear Engineering and Technology, 2017, 49, 476-483.	2.3	46
18	The characterization of a cascade thermoelectric cooler in a cryosurgery device. Cryogenics, 2010, 50, 759-764.	1.7	43

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19	Characterization of the thermal stability of RT 22 HC/graphene using a thermal cycle method based on thermoelectric methods. Applied Thermal Engineering, 2017, 124, 62-70.	6.0	43
20	Passive cooling system in a nuclear spent fuel pool using a vertical straight wickless-heat pipe. International Journal of Thermal Sciences, 2018, 126, 162-171.	4.9	43
21	Thermal Properties of Beeswax/CuO Nano Phase-change Material Used for Thermal Energy Storage. International Journal of Technology, 2016, 7, 244.	0.8	32
22	Energy-Related CO2 Emissions Growth in ASEAN Countries: Trends, Drivers and Policy Implications. Energies, 2019, 12, 4650.	3.1	29
23	Experimental investigation of the operating characteristics of a hybrid loop heat pipe using pump assistance. Applied Thermal Engineering, 2018, 130, 10-16.	6.0	26
24	Experimental analysis of a multistage direct-indirect evaporative cooler using a straight heat pipe. Applied Thermal Engineering, 2020, 171, 115133.	6.0	23
25	Sensitivity analysis of steam power plant-binary cycle. Energy, 2010, 35, 3578-3586.	8.8	21
26	Characteristics of Screen Mesh Wick Heat Pipe with Nano-fluid as Passive Cooling System. Atom Indonesia, 2013, 39, 24.	0.5	19
27	Utilizing heat pipe heat exchanger to reduce the energy consumption of airborne infection isolation hospital room HVAC system. Journal of Building Engineering, 2021, 35, 102116.	3.4	18
28	Thermal properties of sonicated graphene in coconut oil as a phase change material for energy storage in building applications1. International Journal of Low-Carbon Technologies, 2020, 15, 629-636.	2.6	17
29	Visualization of the boiling phenomenon inside a heat pipe using neutron radiography. Experimental Thermal and Fluid Science, 2015, 66, 13-27.	2.7	16
30	Improvement of heat pipe performance through integration of a coral biomaterial wick structure into the heat pipe of a CPU cooling system. Heat and Mass Transfer, 2017, 53, 1163-1174.	2.1	16
31	Synthesis of hybrid nanofluid with two-step method. E3S Web of Conferences, 2018, 67, 03057.	0.5	16
32	Multi-stage heat-pipe heat exchanger for improving energy efficiency of the HVAC system in a hospital operating room 1. International Journal of Low-Carbon Technologies, 2021, 16, 259-267.	2.6	16
33	Thermal performance of Pulsating Heat Pipe on Electric Motor as Cooling Application. E3S Web of Conferences, 2018, 67, 03035.	0.5	15
34	Experimental analysis of natural wax as phase change material by thermal cycling test using thermoelectric system. Journal of Energy Storage, 2021, 40, 102703.	8.1	13
35	An Experimental Study on Thermal Performance of Nano Fluids in Microchannel Heat Exchanger. International Journal of Technology, 2014, 4, 167.	0.8	13
36	Utilization of U-shaped finned heat pipe heat exchanger in energy-efficient HVAC systems. Thermal Science and Engineering Progress, 2021, 25, 100984.	2.7	12

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37	The Effect of CuO-Water Nanofluid and Biomaterial Wick on Loop Heat Pipe Performance. Advanced Materials Research, 0, 875-877, 356-361.	0.3	11
38	Battery thermal management system using loop heat pipe with LTP copper capillary wick. IOP Conference Series: Earth and Environmental Science, 2018, 105, 012045.	0.3	11
39	Experimental Study of Heat Pipe Heat Exchanger Multi Fin for Energy Efficiency Effort in Operating Room Air System. International Journal of Technology, 2018, 9, 422.	0.8	11
40	Influence of temperature on conversion of plastics waste (polystyrene) to liquid oil using pyrolysis process. IOP Conference Series: Earth and Environmental Science, 2018, 105, 012033.	0.3	10
41	Thermal Management of Electric Vehicle Batteries Using Heat Pipe and Phase Change Materials. E3S Web of Conferences, 2018, 67, 03034.	0.5	10
42	Design, synthesis and antiamoebic activity of dysprosiumâ€based nanoparticles using contact lenses as carriers against Acanthamoeba sp.. Acta Ophthalmologica, 2021, 99, e178-e188.	1.1	10
43	A Review of Improvements to the Liquid Collection System Used in the Pyrolysis Process for Producing Liquid Smoke. International Journal of Technology, 2017, 8, 1197.	0.8	10
44	Simulation of Wickless-Heat Pipe as Passive Cooling System in Nuclear Spent Fuel Pool Using RELAP5/MOD3.2. International Journal on Advanced Science, Engineering and Information Technology, 2017, 7, 836.	0.4	10
45	AN EXPERIMENTAL INVESTIGATION OF POOL BOILING ON NARROW HORIZONTAL TUBES. Experimental Heat Transfer, 2004, 17, 131-146.	3.2	9
46	Application of Al₂O₃ Nanofluid on Sintered Copper-Powder Vapor Chamber for Electronic Cooling. Advanced Materials Research, 0, 789, 423-428.	0.3	9
47	The Utilization of Heat Pipe on Cold Surface of Thermoelectric with Low-Temperature Waste Heat. Applied Mechanics and Materials, 0, 302, 410-415.	0.2	9
48	Thermal properties of paraffin based nano-phase change material as thermal energy storage. IOP Conference Series: Earth and Environmental Science, 2018, 105, 012028.	0.3	9
49	Chiller performance study with refrigerant R290. AIP Conference Proceedings, 2019, , .	0.4	9
50	Effect of Concentration and Loading Fluid of Nanofluids on the Thermal Resistance of Sintered Powder Wick Heat Pipe. Advanced Materials Research, 0, 651, 728-735.	0.3	8
51	Experimental study on the effect of gap size to CCFL and CHF in a vertical of narrow rectangular channel during quenching process. Annals of Nuclear Energy, 2014, 72, 391-400.	1.8	8
52	Experimental Investigation on Contact Angle of Sintered Copper Powder Wick. Applied Mechanics and Materials, 0, 819, 575-579.	0.2	8
53	Measurement of PCM-concrete composites thermal properties for energy conservation in building material. AIP Conference Proceedings, 2020, , .	0.4	8
54	Harvesting the low-temperature geothermal energy for agricultural drying with two-phase closed thermosyphon: An experimental study. Geothermics, 2022, 100, 102346.	3.4	8

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55	Simulation of Heat Flux Effect in Straight Heat Pipe as Passive Residual Heat Removal System in Light Water Reactor Using RELAP5 Mod 3.2. Applied Mechanics and Materials, 0, 819, 122-126.	0.2	7
56	New method of thermal cycling stability test of phase change material. MATEC Web of Conferences, 2017, 101, 01007.	0.2	7
57	The Fabrication and Testing Development of Heat Pipe Wicks: A Review. , 2019, , .		7
58	Tackling the COVID-19 Pandemic: Managing the Cause, Spread, and Impact. International Journal of Technology, 2020, 11, 209.	0.8	7
59	Design of a Solar AC System Including a PCM Storage for Sustainable Resorts in Tropical Region. Evergreen, 2019, 6, 143-148.	0.5	7
60	Estimation of natural circulation flow based on temperature in the FASSIP-02 large-scale test loop facility. IOP Conference Series: Earth and Environmental Science, 2018, 105, 012091.	0.3	6
61	Development of a novel thermoelectric module based device for thermal stability measurement of phase change materials. Journal of Energy Storage, 2019, 22, 331-335.	8.1	6
62	Monoclinic cerium(III) picrate tetraethylene glycol complex: design, synthesis and biological evaluation as anti-amoebic activity against Acanthamoeba sp.. Journal of Materials Science, 2020, 55, 9795-9811.	3.7	6
63	The Application of U-shape Heat Pipe Heat Exchanger to Reduce Relative Humidity for Energy Conservation in Heating, Ventilation, and Air Conditioning (HVAC) Systems. International Journal of Technology, 2019, 10, 1202.	0.8	6
64	SIMULATION OF OPERATIONAL CONDITIONS OF FASSIP-02 NATURAL CIRCULATION COOLING SYSTEM EXPERIMENTAL LOOP. Jurnal Sains Dan Teknologi Nuklir Indonesia, 2018, 19, 40.	0.4	6
65	Experimental study on sintered powder wick loop heat pipe. , 2012, , .		5
66	Influence of stack plate thickness and voltage input on the performance of loudspeaker-driven thermoacoustic refrigerator. Journal of Physics: Conference Series, 2013, 423, 012050.	0.4	5
67	Characterization of shape-stabilized phase change material using beeswax and functionalized multi-walled carbon nanotubes. IOP Conference Series: Earth and Environmental Science, 2018, 105, 012042.	0.3	5
68	Numerical study on natural circulation characteristics in FASSIP-02 experimental facility using RELAP5 code. IOP Conference Series: Earth and Environmental Science, 2018, 105, 012090.	0.3	5
69	Experimental investigation on phase change materials as heating element for non-electric neonatal incubator. AIP Conference Proceedings, 2017, , .	0.4	4
70	Characterization of capillary pumping amount in novel sintered zeolites and hybrid zeolite-Cu for heat pipe applications. International Journal of Heat and Mass Transfer, 2019, 145, 118759.	4.8	4
71	Experimental study on utilization of heat pipe heat exchanger for energy conservation of air conditioning system in a hospitals and its techno-economic feasibility. AIP Conference Proceedings, 2020, , .	0.4	4
72	Evaporative cooling innovations - A review. AIP Conference Proceedings, 2020, , .	0.4	4

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73	Measurement of biomaterial capillary wick of heat pipe using micro-CT scan. AIP Conference Proceedings, 2020, , .	0.4	4
74	Withering of tea leaves using heat pipe heat exchanger by utilizing low-temperature geothermal energy. International Journal of Low-Carbon Technologies, 2021, 16, 146-155.	2.6	4
75	Non-dimensional analysis for heat pipe characteristics in the heat pipe heat exchanger as energy recovery device in the HVAC systems. Thermal Science and Engineering Progress, 2021, 26, 101122.	2.7	4
76	Pool Boiling of Nanofluids in Vertical Porous Media. Applied Mechanics and Materials, 0, 388, 18-22.	0.2	3
77	Experimental study on a hybrid loop heat pipe. MATEC Web of Conferences, 2017, 101, 03011.	0.2	3
78	Preliminary investigation of natural circulation stability in FASSIP-01 experimental facility using RELAP5 code. AIP Conference Proceedings, 2018, , .	0.4	3
79	Development of hybrid loop heat pipe using pump assistance for cooling application on high heat flux device. Journal of Mechanical Science and Technology, 2019, 33, 3685-3694.	1.5	3
80	Investigation on vertical straight wickless-heat pipe as gamma irradiator passive cooling system. AIP Conference Proceedings, 2020, , .	0.4	3
81	Investigation the effect of powder type on the capillary pumping performance and wettability. AIP Conference Proceedings, 2020, , .	0.4	3
82	Study of Heat Pipe Utilizing Low-Temperature Geothermal Energy and Zeolite-A for Tea Leaves Withering Process. Evergreen, 2020, 7, 221-227.	0.5	3
83	Application of biomachining on copper for a minichannel heat exchanger. Thermal Science and Engineering Progress, 2021, 26, 101128.	2.7	3
84	Thermal performance of evacuated tube heat pipe solar collector. AIP Conference Proceedings, 2016, , .	0.4	2
85	Fabrication of Lotus-Type Porous Copper Using Slip Casting and Sintering Techniques for Heat Pipe Applications. Applied Mechanics and Materials, 0, 819, 601-605.	0.2	2
86	The use of beeswax as heating element in non-electric infant incubator. Journal of Medical Engineering and Technology, 2017, 41, 593-599.	1.4	2
87	Effect of graphenenano-fluid on heat pipe thermal performance for passive heat removal in nuclear spent fuel storage pool. IOP Conference Series: Earth and Environmental Science, 2018, 105, 012030.	0.3	2
88	Experimental study of hybrid loop heat pipe using pump assistance for high heat flux system. IOP Conference Series: Earth and Environmental Science, 2018, 105, 012011.	0.3	2
89	Analysis of the use of thermoelectric generator and heat pipe for waste heat utilization. E3S Web of Conferences, 2018, 67, 02057.	0.5	2
90	Thinking Ecology for Architecture: Exploration of Cool Pocket. E3S Web of Conferences, 2018, 67, 04041.	0.5	2

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91	Preliminary investigation of wickless-heat pipe as passive cooling system in emergency cooling tank. AIP Conference Proceedings, 2018, , .	0.4	2
92	A preliminary investigation on visualization of oscillating heat pipe with non-destructive test. IOP Conference Series: Earth and Environmental Science, 2018, 105, 012074.	0.3	2
93	Modelling of electric characteristics of 150-watt peak solar panel using Boltzmann sigmoid function under various temperature and irradiance. Journal of Physics: Conference Series, 2018, 953, 012048.	0.4	2
94	Study of heat transfer in a water cooling tank with c-shaped heat exchanger and straight heat pipe under natural circulation. AIP Conference Proceedings, 2019, , .	0.4	2
95	An experimental analysis of diesel fuel produced from HDPE (high-density polyethylene) waste using thermal and catalytic pyrolysis with passive heat pipe cooling system. Thermal Science and Engineering Progress, 2021, 23, 100917.	2.7	2
96	Experimental Investigation of a Large Scale-oscillating Heat Pipe at Different Inclinations. International Journal of Technology, 2019, 10, 258.	0.8	2
97	Effects of Sequence Preparation of Titanium Dioxideâ€“Water Nanofluid using Cetyltrimethylammonium Bromide Surfactant and Tio2 Nanoparticles for Enhancement of Thermal Conductivity
. International Journal of Technology, 2019, 10, 1453.	0.8	2
98	Vapor Chamber Utilization for Rapid Cooling in the Conventional Plastic Injection Molding Process. International Journal of Technology, 2017, 8, 690.	0.8	2
99	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. International Journal of Technology, 2018, 9, 1236.	0.8	2
100	Thermal Performance of Oscillating Heat Pipe with Ethanol/Methanol for Heat Recovery Application Design. International Journal on Advanced Science, Engineering and Information Technology, 2017, 7, 1268.	0.4	2
101	A New Cascade Solar Desalination System with Integrated Thermosyphons. International Journal of Technology, 2018, 9, 297.	0.8	2
102	Evaluation of Spatial Layout in Health Care Waiting Areas based on Simulation of Droplet Movement Trace. International Journal of Technology, 2018, 9, 888.	0.8	2
103	Utilization the Heat Pipe Heat Exchanger Techniques at Low Enthalpy Geothermal Energy to Coffee Drying Process. Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 2020, 74, 43-53.	0.6	2
104	Accelerating Sustainable Energy Development through Industry 4.0 Technologies. International Journal of Technology, 2020, 11, 1463.	0.8	2
105	Phase change material (PCM) with shaped stabilized method for thermal energy storage: A review. AIP Conference Proceedings, 2020, , .	0.4	2
106	Enhancing the performance of conventional coffee beans drying with low-temperature geothermal energy by applying HPHE: An experimental study. Open Agriculture, 2021, 6, 807-818.	1.7	2
107	Performance of Thermoelectrics and Heat Pipes Refrigerator. Applied Mechanics and Materials, 2013, 388, 52-57.	0.2	1
108	Experimental study on utilization of heat pipe heat exchanger for improving efficiency of clean room air system in hospitals. E3S Web of Conferences, 2018, 67, 02056.	0.5	1

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109	Interfacial momentum and two-phase turbulence of the multigroups two-phase bubbly flow. AIP Conference Proceedings, 2018, , .	0.4	1
110	The effect of power and cooler flow on time responds of flow stability in natural circulation phenomenon using FASSIP-01 loop. AIP Conference Proceedings, 2019, , .	0.4	1
111	Preliminary Investigation on Natural Circulation Flow using CFD and Calculation Base on Experimental Data Pre-FASSIP-02. Journal of Physics: Conference Series, 2019, 1198, 022073.	0.4	1
112	The filling ratio effect on the overshoot phenomenon of vertical straight wickless-heat pipe with low temperature source. AIP Conference Proceedings, 2019, , .	0.4	1
113	Development and testing multiple evaporator loop heat pipe utilizing three way T port valve. AIP Conference Proceedings, 2020, , .	0.4	1
114	Yield and composition characteristic of Citrus nobilis pectin extracted under acidic condition. AIP Conference Proceedings, 2020, , .	0.4	1
115	Investigation on polyethylene terephthalate pyrolysis products using straight heat pipe as passive cooling system. AIP Conference Proceedings, 2020, , .	0.4	1
116	Influence of Feedstock Particle Size from Merbau Wood (Intsia bijuga) on Bio-Oil Production Using a Heat Pipe Fin L-Shaped Condenser in a Pyrolysis Process. Engineering Journal, 2020, 24, 261-271.	1.0	1
117	Research Frontiers in Energy, Materials, Production, and Transportation. International Journal of Technology, 2015, 6, 905.	0.8	1
118	Investigation on the Use Solar Thermoelectric Generator for Open Pond Cultivation with Heat Pipe Cooling. Engineering Journal, 2020, 24, 295-304.	1.0	1
119	Thermoelectric Heat Pipe-Based Refrigerator: System Development and Comparison with Thermoelectric, Absorption and Vapor Compression Refrigerators. Advanced Materials Research, 0, 651, 736-744.	0.3	0
120	Experimental Study on Counter Current Flow Limitation Based on Variation of Gap Size in Narrow Rectangular Channel during Quenching Process. Applied Mechanics and Materials, 0, 590, 613-617.	0.2	0
121	Analysis of CuO-Water Nanofluid Application on Heat Pipe. Applied Mechanics and Materials, 0, 590, 234-238.	0.2	0
122	Investigation on Thermoacoustic Cooling Device with Variation in Stack Plate Size and Input Acoustic Energy. Springer Series in Materials Science, 2015, , 205-220.	0.6	0
123	Boiling Phenomenon of Tabulate Biomaterial Wick Heat Pipe. Applied Mechanics and Materials, 2015, 776, 289-293.	0.2	0
124	Numerical investigation of temperature distribution in a water cooling tank under natural convection. AIP Conference Proceedings, 2019, , .	0.4	0
125	Thermal properties of heat pipe using titanium dioxide-water nanofluids modified cationic surfactant. AIP Conference Proceedings, 2020, , .	0.4	0
126	Manufacturing and performance testing of hybrid air conditioner water heater (H-ACWH). AIP Conference Proceedings, 2020, , .	0.4	0

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127	Effect of Al2O3 and TiO2 nano-coated wick on the thermal performance of heat pipe. Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	0
128	Experimental Study on the Effect of Initial Temperature on CHF in a Vertical Annulus Narrow Channel with Bilateral Heated. Atom Indonesia, 2011, 37, 45.	0.5	0
129	Thermofluids on Renewable Energy, Refrigeration and Air Conditioning, and Flame and Combustion. International Journal of Technology, 2016, 7, 185.	0.8	0
130	Accelerating Technology Development: Engaging Stakeholders and International Networking. International Journal of Technology, 2016, 7, 1128.	0.8	0
131	Research in Thermofluid and Materials for Better Industrial Products. International Journal of Technology, 2017, 8, 1178.	0.8	0
132	Biomass: from Waste to Valuable Materials. International Journal of Technology, 2019, 10, 1465.	0.8	0
133	Non-Sweep Gas Pyrolysis with Vapor Heater using â€œShorea Pinangaâ€•as a feedstock. Evergreen, 2020, 7, 555-563.	0.5	0