

# Nandy Putra

## List of Publications by Year in descending order

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133  
papers

6,489  
citations

279487

23  
h-index

66788

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. <i>Journal of Heat Transfer</i> , 2003, 125, 567-574.	1.2	2,030
2	Pool boiling characteristics of nano-fluids. <i>International Journal of Heat and Mass Transfer</i> , 2003, 46, 851-862.	2.5	895
3	Natural convection of nano-fluids. <i>Heat and Mass Transfer</i> , 2003, 39, 775-784.	1.2	843
4	Thermal properties of beeswax/graphene phase change material as energy storage for building applications. <i>Applied Thermal Engineering</i> , 2017, 112, 273-280.	3.0	274
5	Pool boiling of nano-fluids on horizontal narrow tubes. <i>International Journal of Multiphase Flow</i> , 2003, 29, 1237-1247.	1.6	240
6	Phase Change Materials (PCM) for Solar Energy Usages and Storage: An Overview. <i>Energies</i> , 2019, 12, 3167.	1.6	197
7	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.	3.0	184
8	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.	2.6	170
9	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.	1.5	137
10	Thermal performance of screen mesh wick heat pipes with nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2012, 40, 10-17.	1.5	130
11	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.	3.9	109
12	Titanium dioxide nanofluids for heat transfer applications. <i>Experimental Thermal and Fluid Science</i> , 2014, 52, 19-29.	1.5	103
13	Experimental investigation of thermal conductivity and heat pipe thermal performance of ZnO nanofluids. <i>International Journal of Thermal Sciences</i> , 2013, 63, 125-132.	2.6	100
14	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.	2.8	95
15	Electric motor thermal management system using L-shaped flat heat pipes. <i>Applied Thermal Engineering</i> , 2017, 126, 1156-1163.	3.0	91
16	Thermal performance of biomaterial wick loop heat pipes with water-base Al <sub>2</sub> O <sub>3</sub> nanofluids. <i>International Journal of Thermal Sciences</i> , 2014, 76, 128-136.	2.6	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. <i>Nuclear Engineering and Technology</i> , 2017, 49, 476-483.	1.1	46
18	The characterization of a cascade thermoelectric cooler in a cryosurgery device. <i>Cryogenics</i> , 2010, 50, 759-764.	0.9	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. <i>Applied Thermal Engineering</i> , 2017, 124, 62-70.	3.0	43
20	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.	2.6	43
21	Thermal Properties of Beeswax/CuO Nano Phase-change Material Used for Thermal Energy Storage. <i>International Journal of Technology</i> , 2016, 7, 244.	0.4	32
22	Energy-Related CO2 Emissions Growth in ASEAN Countries: Trends, Drivers and Policy Implications. <i>Energies</i> , 2019, 12, 4650.	1.6	29
23	Experimental investigation of the operating characteristics of a hybrid loop heat pipe using pump assistance. <i>Applied Thermal Engineering</i> , 2018, 130, 10-16.	3.0	26
24	Experimental analysis of a multistage direct-indirect evaporative cooler using a straight heat pipe. <i>Applied Thermal Engineering</i> , 2020, 171, 115133.	3.0	23
25	Sensitivity analysis of steam power plant-binary cycle. <i>Energy</i> , 2010, 35, 3578-3586.	4.5	21
26	Characteristics of Screen Mesh Wick Heat Pipe with Nano-fluid as Passive Cooling System. <i>Atom Indonesia</i> , 2013, 39, 24.	0.2	19
27	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.	1.6	18
28	Thermal properties of sonicated graphene in coconut oil as a phase change material for energy storage in building applications1. <i>International Journal of Low-Carbon Technologies</i> , 2020, 15, 629-636.	1.2	17
29	Visualization of the boiling phenomenon inside a heat pipe using neutron radiography. <i>Experimental Thermal and Fluid Science</i> , 2015, 66, 13-27.	1.5	16
30	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.	1.2	16
31	Synthesis of hybrid nanofluid with two-step method. <i>E3S Web of Conferences</i> , 2018, 67, 03057.	0.2	16
32	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.	1.2	16
33	Thermal performance of Pulsating Heat Pipe on Electric Motor as Cooling Application. <i>E3S Web of Conferences</i> , 2018, 67, 03035.	0.2	15
34	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.	3.9	13
35	An Experimental Study on Thermal Performance of Nano Fluids in Microchannel Heat Exchanger. <i>International Journal of Technology</i> , 2014, 4, 167.	0.4	13
36	Utilization of U-shaped finned heat pipe heat exchanger in energy-efficient HVAC systems. <i>Thermal Science and Engineering Progress</i> , 2021, 25, 100984.	1.3	12

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37	The Effect of CuO-Water Nanofluid and Biomaterial Wick on Loop Heat Pipe Performance. <i>Advanced Materials Research</i> , 0, 875-877, 356-361.	0.3	11
38	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.	0.2	11
39	Experimental Study of Heat Pipe Heat Exchanger Multi Fin for Energy Efficiency Effort in Operating Room Air System. <i>International Journal of Technology</i> , 2018, 9, 422.	0.4	11
40	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.	0.2	10
41	Thermal Management of Electric Vehicle Batteries Using Heat Pipe and Phase Change Materials. <i>E3S Web of Conferences</i> , 2018, 67, 03034.	0.2	10
42	Design, synthesis and antiamebic activity of dysprosium-based nanoparticles using contact lenses as carriers against <i>Acanthamoeba</i> sp.. <i>Acta Ophthalmologica</i> , 2021, 99, e178-e188.	0.6	10
43	A Review of Improvements to the Liquid Collection System Used in the Pyrolysis Process for Producing Liquid Smoke. <i>International Journal of Technology</i> , 2017, 8, 1197.	0.4	10
44	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.	0.2	10
45	AN EXPERIMENTAL INVESTIGATION OF POOL BOILING ON NARROW HORIZONTAL TUBES. <i>Experimental Heat Transfer</i> , 2004, 17, 131-146.	2.3	9
46	Application of Al <sub>2</sub> O <sub>3</sub> Nanofluid on Sintered Copper-Powder Vapor Chamber for Electronic Cooling. <i>Advanced Materials Research</i> , 0, 789, 423-428.	0.3	9
47	The Utilization of Heat Pipe on Cold Surface of Thermoelectric with Low-Temperature Waste Heat. <i>Applied Mechanics and Materials</i> , 0, 302, 410-415.	0.2	9
48	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.	0.2	9
49	Chiller performance study with refrigerant R290. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	9
50	Effect of Concentration and Loading Fluid of Nanofluids on the Thermal Resistance of Sintered Powder Wick Heat Pipe. <i>Advanced Materials Research</i> , 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. <i>Annals of Nuclear Energy</i> , 2014, 72, 391-400.	0.9	8
52	Experimental Investigation on Contact Angle of Sintered Copper Powder Wick. <i>Applied Mechanics and Materials</i> , 0, 819, 575-579.	0.2	8
53	Measurement of PCM-concrete composites thermal properties for energy conservation in building material. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	8
54	Harvesting the low-temperature geothermal energy for agricultural drying with two-phase closed thermosyphon: An experimental study. <i>Geothermics</i> , 2022, 100, 102346.	1.5	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.	0.1	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.	0.4	7
59	Design of a Solar AC System Including a PCM Storage for Sustainable Resorts in Tropical Region. Evergreen, 2019, 6, 143-148.	0.3	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.	0.2	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.	3.9	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.	1.7	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.	0.4	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.	0.3	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.	0.2	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.	0.2	5
69	Experimental investigation on phase change materials as heating element for non-electric neonatal incubator. AIP Conference Proceedings, 2017, , .	0.3	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.	2.5	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, , .	0.3	4
72	Evaporative cooling innovations - A review. AIP Conference Proceedings, 2020, , .	0.3	4

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73	Measurement of biomaterial capillary wick of heat pipe using micro-CT scan. AIP Conference Proceedings, 2020, , .	0.3	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.	1.2	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.	1.3	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.	0.1	3
78	Preliminary investigation of natural circulation stability in FASSIP-01 experimental facility using RELAP5 code. AIP Conference Proceedings, 2018, , .	0.3	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.	0.7	3
80	Investigation on vertical straight wickless-heat pipe as gamma irradiator passive cooling system. AIP Conference Proceedings, 2020, , .	0.3	3
81	Investigation the effect of powder type on the capillary pumping performance and wettability. AIP Conference Proceedings, 2020, , .	0.3	3
82	Study of Heat Pipe Utilizing Low-Temperature Geothermal Energy and Zeolite-A for Tea Leaves Withering Process. Evergreen, 2020, 7, 221-227.	0.3	3
83	Application of biomachining on copper for a minichannel heat exchanger. Thermal Science and Engineering Progress, 2021, 26, 101128.	1.3	3
84	Thermal performance of evacuated tube heat pipe solar collector. AIP Conference Proceedings, 2016, , .	0.3	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.	0.8	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.	0.2	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.	0.2	2
89	Analysis of the use of thermoelectric generator and heat pipe for waste heat utilization. E3S Web of Conferences, 2018, 67, 02057.	0.2	2
90	Thinking Ecology for Architecture: Exploration of Cool Pocket. E3S Web of Conferences, 2018, 67, 04041.	0.2	2

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91	Preliminary investigation of wickless-heat pipe as passive cooling system in emergency cooling tank. AIP Conference Proceedings, 2018, , .	0.3	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.	0.2	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.	0.3	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, , .	0.3	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.	1.3	2
96	Experimental Investigation of a Large Scale-oscillating Heat Pipe at Different Inclinations. International Journal of Technology, 2019, 10, 258.	0.4	2
97	Effects of Sequence Preparation of Titanium Dioxideâ€“Water Nanofluid using Cetyltrimethylammonium Bromide Surfactant and Tio2 Nanoparticles for Enhancement of Thermal Conductivity&#x0D;. International Journal of Technology, 2019, 10, 1453.	0.4	2
98	Vapor Chamber Utilization for Rapid Cooling in the Conventional Plastic Injection Molding Process. International Journal of Technology, 2017, 8, 690.	0.4	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.	0.4	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.	0.2	2
101	A New Cascade Solar Desalination System with Integrated Thermosyphons. International Journal of Technology, 2018, 9, 297.	0.4	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.	0.4	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.	0.3	2
104	Accelerating Sustainable Energy Development through Industry 4.0 Technologies. International Journal of Technology, 2020, 11, 1463.	0.4	2
105	Phase change material (PCM) with shaped stabilized method for thermal energy storage: A review. AIP Conference Proceedings, 2020, , .	0.3	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.	0.7	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.	0.2	1

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109	Interfacial momentum and two-phase turbulence of the multigroups two-phase bubbly flow. AIP Conference Proceedings, 2018, , .	0.3	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, , .	0.3	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.	0.3	1
112	The filling ratio effect on the overshoot phenomenon of vertical straight wickless-heat pipe with low temperature source. AIP Conference Proceedings, 2019, , .	0.3	1
113	Development and testing multiple evaporator loop heat pipe utilizing three way T port valve. AIP Conference Proceedings, 2020, , .	0.3	1
114	Yield and composition characteristic of Citrus nobilis pectin extracted under acidic condition. AIP Conference Proceedings, 2020, , .	0.3	1
115	Investigation on polyethylene terephthalate pyrolysis products using straight heat pipe as passive cooling system. AIP Conference Proceedings, 2020, , .	0.3	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.	0.5	1
117	Research Frontiers in Energy, Materials, Production, and Transportation. International Journal of Technology, 2015, 6, 905.	0.4	1
118	Investigation on the Use Solar Thermoelectric Generator for Open Pond Cultivation with Heat Pipe Cooling. Engineering Journal, 2020, 24, 295-304.	0.5	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.	0.4	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, , .	0.3	0
125	Thermal properties of heat pipe using titanium dioxide-water nanofluids modified cationic surfactant. AIP Conference Proceedings, 2020, , .	0.3	0
126	Manufacturing and performance testing of hybrid air conditioner water heater (H-ACWH). AIP Conference Proceedings, 2020, , .	0.3	0



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127	Effect of Al <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> nano-coated wick on the thermal performance of heat pipe. Journal of Thermal Analysis and Calorimetry, 0, , 1.	2.0	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.	0.2	0
129	Thermofluids on Renewable Energy, Refrigeration and Air Conditioning, and Flame and Combustion. International Journal of Technology, 2016, 7, 185.	0.4	0
130	Accelerating Technology Development: Engaging Stakeholders and International Networking. International Journal of Technology, 2016, 7, 1128.	0.4	0
131	Research in Thermofluid and Materials for Better Industrial Products. International Journal of Technology, 2017, 8, 1178.	0.4	0
132	Biomass: from Waste to Valuable Materials. International Journal of Technology, 2019, 10, 1465.	0.4	0
133	Non-Sweep Gas Pyrolysis with Vapor Heater using "Shorea Pinanga" as a feedstock. Evergreen, 2020, 7, 555-563.	0.3	0