

# 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	Harvesting the low-temperature geothermal energy for agricultural drying with two-phase closed thermosyphon: An experimental study. <i>Geothermics</i> , 2022, 100, 102346.	3.4	8
2	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.	1.1	10
3	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.	2.6	16
4	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.	2.6	4
5	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.	3.4	18
6	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.	2.7	2
7	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.	8.1	13
8	Utilization of U-shaped finned heat pipe heat exchanger in energy-efficient HVAC systems. <i>Thermal Science and Engineering Progress</i> , 2021, 25, 100984.	2.7	12
9	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, 26, 101122.	2.7	4
10	Application of biomachining on copper for a minichannel heat exchanger. <i>Thermal Science and Engineering Progress</i> , 2021, 26, 101128.	2.7	3
11	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.	1.7	2
12	Development and testing multiple evaporator loop heat pipe utilizing three way T port valve. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
13	Measurement of PCM-concrete composites thermal properties for energy conservation in building material. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	8
14	Thermal properties of heat pipe using titanium dioxide-water nanofluids modified cationic surfactant. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
15	Manufacturing and performance testing of hybrid air conditioner water heater (H-ACWH). <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
16	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.	2.6	17
17	Investigation on vertical straight wickless-heat pipe as gamma irradiator passive cooling system. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	3
18	Yield and composition characteristic of <i>Citrus nobilis</i> pectin extracted under acidic condition. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1

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19	Investigation on polyethylene terephthalate pyrolysis products using straight heat pipe as passive cooling system. AIP Conference Proceedings, 2020, , .	0.4	1
20	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
21	Evaporative cooling innovations - A review. AIP Conference Proceedings, 2020, , .	0.4	4
22	Measurement of biomaterial capillary wick of heat pipe using micro-CT scan. AIP Conference Proceedings, 2020, , .	0.4	4
23	Investigation the effect of powder type on the capillary pumping performance and wettability. AIP Conference Proceedings, 2020, , .	0.4	3
24	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
25	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
26	Experimental analysis of a multistage direct-indirect evaporative cooler using a straight heat pipe. Applied Thermal Engineering, 2020, 171, 115133.	6.0	23
27	Tackling the COVID-19 Pandemic: Managing the Cause, Spread, and Impact. International Journal of Technology, 2020, 11, 209.	0.8	7
28	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
29	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
30	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
31	Non-Sweep Gas Pyrolysis with Vapor Heater using "Shorea Pinanga" as a feedstock. Evergreen, 2020, 7, 555-563.	0.5	0
32	Accelerating Sustainable Energy Development through Industry 4.0 Technologies. International Journal of Technology, 2020, 11, 1463.	0.8	2
33	Phase change material (PCM) with shaped stabilized method for thermal energy storage: A review. AIP Conference Proceedings, 2020, , .	0.4	2
34	Investigation on the Use Solar Thermoelectric Generator for Open Pond Cultivation with Heat Pipe Cooling. Engineering Journal, 2020, 24, 295-304.	1.0	1
35	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
36	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

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37	Phase Change Materials (PCM) for Solar Energy Usages and Storage: An Overview. <i>Energies</i> , 2019, 12, 3167.	3.1	197
38	The Fabrication and Testing Development of Heat Pipe Wicks: A Review. , 2019, , .		7
39	Chiller performance study with refrigerant R290. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	9
40	Study of heat transfer in a water cooling tank with c-shaped heat exchanger and straight heat pipe under natural circulation. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	2
41	Numerical investigation of temperature distribution in a water cooling tank under natural convection. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
42	The effect of power and cooler flow on time responds of flow stability in natural circulation phenomenon using FASSIP-01 loop. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
43	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.	0.4	1
44	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.	8.1	6
45	Energy-Related CO2 Emissions Growth in ASEAN Countries: Trends, Drivers and Policy Implications. <i>Energies</i> , 2019, 12, 4650.	3.1	29
46	The filling ratio effect on the overshoot phenomenon of vertical straight wickless-heat pipe with low temperature source. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
47	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.	8.1	109
48	Experimental Investigation of a Large Scale-oscillating Heat Pipe at Different Inclinations. <i>International Journal of Technology</i> , 2019, 10, 258.	0.8	2
49	The Application of U-shape Heat Pipe Heat Exchanger to Reduce Relative Humidity for Energy Conservation in Heating, Ventilation, and Air Conditioning (HVAC) Systems. <i>International Journal of Technology</i> , 2019, 10, 1202.	0.8	6
50	Effects of Sequence Preparation of Titanium Dioxideâ€“Water Nanofluid using Cetyltrimethylammonium Bromide Surfactant and Tio2 Nanoparticles for Enhancement of Thermal Conductivity&#xOD;. <i>International Journal of Technology</i> , 2019, 10, 1453.	0.8	2
51	Design of a Solar AC System Including a PCM Storage for Sustainable Resorts in Tropical Region. <i>Evergreen</i> , 2019, 6, 143-148.	0.5	7
52	Biomass: from Waste to Valuable Materials. <i>International Journal of Technology</i> , 2019, 10, 1465.	0.8	0
53	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	2
54	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	10

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55	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
56	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
57	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
58	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
59	Analysis of the use of thermoelectric generator and heat pipe for waste heat utilization. E3S Web of Conferences, 2018, 67, 02057.	0.5	2
60	Thermal Management of Electric Vehicle Batteries Using Heat Pipe and Phase Change Materials. E3S Web of Conferences, 2018, 67, 03034.	0.5	10
61	Thinking Ecology for Architecture: Exploration of Cool Pocket. E3S Web of Conferences, 2018, 67, 04041.	0.5	2
62	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
63	Synthesis of hybrid nanofluid with two-step method. E3S Web of Conferences, 2018, 67, 03057.	0.5	16
64	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
65	Thermal performance of Pulsating Heat Pipe on Electric Motor as Cooling Application. E3S Web of Conferences, 2018, 67, 03035.	0.5	15
66	Preliminary investigation of wickless-heat pipe as passive cooling system in emergency cooling tank. AIP Conference Proceedings, 2018, , .	0.4	2
67	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
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	Preliminary investigation of natural circulation stability in FASSIP-01 experimental facility using RELAP5 code. AIP Conference Proceedings, 2018, , .	0.4	3
70	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
71	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
72	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

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73	Interfacial momentum and two-phase turbulence of the multigroups two-phase bubbly flow. AIP Conference Proceedings, 2018, , .	0.4	1
74	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
75	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
76	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
77	A New Cascade Solar Desalination System with Integrated Thermosyphons. International Journal of Technology, 2018, 9, 297.	0.8	2
78	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
79	Electric motor thermal management system using L-shaped flat heat pipes. Applied Thermal Engineering, 2017, 126, 1156-1163.	6.0	91
80	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
81	New method of thermal cycling stability test of phase change material. MATEC Web of Conferences, 2017, 101, 01007.	0.2	7
82	Experimental investigation on phase change materials as heating element for non-electric neonatal incubator. AIP Conference Proceedings, 2017, , .	0.4	4
83	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
84	Thermal properties of beeswax/graphene phase change material as energy storage for building applications. Applied Thermal Engineering, 2017, 112, 273-280.	6.0	274
85	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
86	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
87	Experimental study on a hybrid loop heat pipe. MATEC Web of Conferences, 2017, 101, 03011.	0.2	3
88	Vapor Chamber Utilization for Rapid Cooling in the Conventional Plastic Injection Molding Process. International Journal of Technology, 2017, 8, 690.	0.8	2
89	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
90	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

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91	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
92	Research in Thermofluid and Materials for Better Industrial Products. International Journal of Technology, 2017, 8, 1178.	0.8	0
93	Thermal performance of evacuated tube heat pipe solar collector. AIP Conference Proceedings, 2016, , .	0.4	2
94	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
95	Thermal Properties of Beeswax/CuO Nano Phase-change Material Used for Thermal Energy Storage. International Journal of Technology, 2016, 7, 244.	0.8	32
96	Thermofluids on Renewable Energy, Refrigeration and Air Conditioning, and Flame and Combustion. International Journal of Technology, 2016, 7, 185.	0.8	0
97	Accelerating Technology Development: Engaging Stakeholders and International Networking. International Journal of Technology, 2016, 7, 1128.	0.8	0
98	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
99	Visualization of the boiling phenomenon inside a heat pipe using neutron radiography. Experimental Thermal and Fluid Science, 2015, 66, 13-27.	2.7	16
100	Boiling Phenomenon of Tabulate Biomaterial Wick Heat Pipe. Applied Mechanics and Materials, 2015, 776, 289-293.	0.2	0
101	Research Frontiers in Energy, Materials, Production, and Transportation. International Journal of Technology, 2015, 6, 905.	0.8	1
102	Thermal performance of biomaterial wick loop heat pipes with water-base Al <sub>2</sub> O <sub>3</sub> nanofluids. International Journal of Thermal Sciences, 2014, 76, 128-136.	4.9	51
103	Titanium dioxide nanofluids for heat transfer applications. Experimental Thermal and Fluid Science, 2014, 52, 19-29.	2.7	103
104	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
105	An Experimental Study on Thermal Performance of Nano Fluids in Microchannel Heat Exchanger. International Journal of Technology, 2014, 4, 167.	0.8	13
106	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
107	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
108	Performance of Thermoelectrics and Heat Pipes Refrigerator. Applied Mechanics and Materials, 2013, 388, 52-57.	0.2	1

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109	Characteristics of Screen Mesh Wick Heat Pipe with Nano-fluid as Passive Cooling System. Atom Indonesia, 2013, 39, 24.	0.5	19
110	Experimental study on sintered powder wick loop heat pipe. , 2012, , .		5
111	Thermal performance of screen mesh wick heat pipes with nanofluids. Experimental Thermal and Fluid Science, 2012, 40, 10-17.	2.7	130
112	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
113	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
114	Sensitivity analysis of steam power plant-binary cycle. Energy, 2010, 35, 3578-3586.	8.8	21
115	The characterization of a cascade thermoelectric cooler in a cryosurgery device. Cryogenics, 2010, 50, 759-764.	1.7	43
116	AN EXPERIMENTAL INVESTIGATION OF POOL BOILING ON NARROW HORIZONTAL TUBES. Experimental Heat Transfer, 2004, 17, 131-146.	3.2	9
117	Natural convection of nano-fluids. Heat and Mass Transfer, 2003, 39, 775-784.	2.1	843
118	Pool boiling of nano-fluids on horizontal narrow tubes. International Journal of Multiphase Flow, 2003, 29, 1237-1247.	3.4	240
119	Pool boiling characteristics of nano-fluids. International Journal of Heat and Mass Transfer, 2003, 46, 851-862.	4.8	895
120	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
121	Temperature Dependence of Thermal Conductivity Enhancement for Nanofluids. Journal of Heat Transfer, 2003, 125, 567-574.	2.1	2,030
122	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
123	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
124	Application of Al <sub>2</sub> O <sub>3</sub> Nanofluid on Sintered Copper-Powder Vapor Chamber for Electronic Cooling. Advanced Materials Research, 0, 789, 423-428.	0.3	9
125	Pool Boiling of Nanofluids in Vertical Porous Media. Applied Mechanics and Materials, 0, 388, 18-22.	0.2	3
126	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



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127	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
128	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
129	Analysis of CuO-Water Nanofluid Application on Heat Pipe. Applied Mechanics and Materials, 0, 590, 234-238.	0.2	0
130	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
131	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
132	Experimental Investigation on Contact Angle of Sintered Copper Powder Wick. Applied Mechanics and Materials, 0, 819, 575-579.	0.2	8
133	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.	3.6	0