

Himsar Ambarita

List of Publications by Year in Descending Order

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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.

81
papers

456
citations

11
h-index

20
g-index

89
ext. papers

540
ext. citations

0.9
avg, IF

4.65
L-index

#	Paper	IF	Citations
81	Thermodynamic Analysis of a Gamma - Type Stirling Engine for mCHP Application. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 225-229	0.4	
80	Effect of Drying Whole and Half Chili Pods Using a Solar Dryer with CaCl Desiccant on Quality of Powder Chili. <i>International Journal of Food Science</i> , 2021 , 2021, 9731727	3.4	0
79	Effect number of blades on the performance of h-Darrieus wind turbine with NACA 0018 air foil. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1122, 012078	0.4	
78	Utilization of Renewable and Conventional Energy in Palm Oil Industry in Indonesia. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 753, 012002	0.3	
77	The potency of solar energy on Medan city of Indonesia: Comparison of clear sky, satellite and field measurements 2020 ,		1
76	Exergy analysis of double slope passive solar still. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 725, 012005	0.4	1
75	Energy analysis of double slope aktive solar still. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 725, 012007	0.4	
74	Study on exergy efficiency of active desalination coupled solar collector. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 725, 012008	0.4	
73	Modeling of Linear and Non-linear Compression Processes of Sunflower Bulk Oilseeds. <i>Energies</i> , 2019 , 12, 2999	3.1	6
72	Performance, rate of heat release, and combustion stability of dual-fuel mode in a small diesel engine. <i>Energy Science and Engineering</i> , 2019 , 7, 1333-1351	3.4	3
71	Contribution of Solar Photovoltaic on the Reduction of Greenhouse Gas Emission in the Indonesia Power Sector. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 648, 012028	0.4	
70	Numerical study on the effect of configuration of a simple box solar cooker for boiling water. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 308, 012028	0.4	1
69	Numerical study on the effects of absorptivity on performance of flat plate solar collector of a water heater. <i>Journal of Physics: Conference Series</i> , 2018 , 978, 012099	0.3	3
68	Effectiveness of a heat exchanger in a heat pump clothes dryer. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 308, 012027	0.4	1
67	Performance analysis of low temperature heat source of organic Rankine cycle for geothermal application. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 308, 012026	0.4	2
66	Effect of engine load and biogas flow rate to the performance of a compression ignition engine run in dual-fuel (dieselbiogas) mode. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 309, 012006	0.4	4
65	CFD Analysis of Evaporation-Condensation Phenomenon In an Evaporation Chamber of Natural Vacuum Solar Desalination. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 300, 012058	0.4	9

64	A preliminary field test of a natural vacuum solar desalination unit using hybrid solar collector 2018		4
63	Study on aerodynamics characteristics an urban concept car for energy-efficient race. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 343, 012025	0.4	3
62	A Study on Adsorption Refrigerator Driven by Solar Collector Using Indonesian Activated Carbon. <i>Journal of Engineering and Technological Sciences</i> , 2018 , 49, 657	2.3	23
61	Analysis of temperature and velocity distributions in a solar drying box coffee beans. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 420, 012035	0.4	2
60	Plant growth of genotypes of Arabica coffee on water stress. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 420, 012066	0.4	2
59	Numerical simulation of heat transfer of an absorber with fin of a flat-plate type solar collector. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 420, 012040	0.4	
58	Talenta. <i>Journal of Physics: Conference Series</i> , 2018 , 1116, 022033	0.3	5
57	A numerical solution to simultaneous heat and mass transfer of convective drying of food. <i>Journal of Physics: Conference Series</i> , 2018 , 1116, 032002	0.3	1
56	A preliminary test of a flat-plate solar collector of hybrid solar water heater. <i>Journal of Physics: Conference Series</i> , 2018 , 1116, 032003	0.3	
55	Potency of energy saving and emission reduction from lighting system in residential sector of Indonesia. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 126, 012021	0.3	
54	Fatigue life estimation on coke drum due to cycle optimization. <i>Journal of Physics: Conference Series</i> , 2018 , 1005, 012002	0.3	0
53	Evaluation of reference temperature in the pseudo density model for solving internal natural convection of gases. <i>Journal of Physics: Conference Series</i> , 2018 , 1116, 032001	0.3	
52	Thermal characteristics of a flat-plate solar collector of hybrid solar water heater. <i>Journal of Physics: Conference Series</i> , 2018 , 1116, 032007	0.3	
51	Numerical analysis of heat transfer rate from absorber of a flat-plate type solar collector to the tube. <i>Journal of Physics: Conference Series</i> , 2018 , 1116, 032027	0.3	
50	Inventory and projection of greenhouse gases emissions for Sumatera Utara Province. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 126, 012114	0.3	0
49	Social and technical barriers that affect the growth of small-scale hydropower independent power producers in Indonesia. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 420, 012041	0.4	3
48	Bio-Pellet Fuel from Oil Palm Empty Fruit Bunches (EFB): Using European Standards for Quality Testing. <i>Sustainability</i> , 2018 , 10, 4443	3.6	14
47	A numerical simulation of fluid flow of Refrigeration R32 in annular pipe. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 420, 012037	0.4	

46	Experimental study on a prototype of heat pipe solar water heater using refrigerant R134a as a transfer fluid. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 309, 012007	0.4	1
45	Transient thermal stresses analysis and thermal fatigue damage evaluation for skirt attachment of coke drum. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 308, 012029	0.4	
44	The optimum temperature of single-stages vapor compression refrigeration cycle for Air-Conditioning unit. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 420, 012038	0.4	1
43	Development of solar water heater that suitable for Indonesian climate. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 420, 012013	0.4	1
42	Experimental study on the performance of solar collector at angle 00 and 50at Medan city.. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 420, 012039	0.4	
41	Investigation on a prototype of heat pipe type solar water heater using R 718 as working fluid. <i>Journal of Physics: Conference Series</i> , 2018 , 1116, 032026	0.3	
40	Fluid flow and heat transfer characteristics of an enclosure with fin as a top cover of a solar collector. <i>Journal of Physics: Conference Series</i> , 2018 , 978, 012096	0.3	1
39	Germination performance of Coffea arabica L. genotypes from different altitude, precipitation and temperature of seeds producing farms in Sumatera Utara of Indonesia. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 205, 012013	0.3	2
38	Numerical study on natural convection between double glasses top cover of a flat plate solar collector. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 309, 012005	0.4	1
37	Performance and emissions of an engine fuelled by biogas of palm oil mill effluent. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 309, 012088	0.4	17
36	Performance of the natural cooler to keep the freshness of vegetables and fruits in Medan City. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 309, 012089	0.4	19
35	Numerical Study on Radiation Effects to Evaporator in Natural Vacuum Solar Desalination System. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 300, 012059	0.4	1
34	Numerical simulation of the effect of baffle spacing to the effectiveness of a shell and tube heat exchanger. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 420, 012036	0.4	
33	Modification split type air conditioning unit by installing internal heat exchanger and condenser precooling. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 126, 012018	0.3	0
32	Numerical Study on Aerodynamic Drag Reduction of an Urban-Concept Car for Energy-Efficient Competition. <i>MATEC Web of Conferences</i> , 2018 , 220, 02001	0.3	0
31	Reliability enumeration model for the gear in a multi-functional machine. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 308, 012019	0.4	0
30	Effects of the inclination angle on the performance of flat plate solar collector. <i>Journal of Physics: Conference Series</i> , 2018 , 978, 012097	0.3	2
29	Application of CFD in Indonesian Research: A review. <i>Journal of Physics: Conference Series</i> , 2018 , 1005, 012014	0.3	

28	The optimum intermediate pressure of two-stages vapor compression refrigeration cycle for Air-Conditioning unit. <i>Journal of Physics: Conference Series</i> , 2018 , 978, 012098	0.3	
27	A numerical study on combustion process in a small compression ignition engine run dual-fuel mode (diesel-biogas). <i>Journal of Physics: Conference Series</i> , 2017 , 801, 012095	0.3	0
26	Frequency Analysis of Chaotic Flow in Transition to Turbulence in Taylor-Couette System with Small Aspect Ratio. <i>Journal of Physics: Conference Series</i> , 2017 , 801, 012063	0.3	1
25	Experimental Study on Melting and Solidification of Phase Change Material Thermal Storage. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 180, 012030	0.4	9
24	Numerical Study on Natural Vacuum Solar Desalination System with Varying Heat Source Temperature. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 180, 012024	0.4	1
23	A field survey on coffee beans drying methods of Indonesian small holder farmers. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 237, 012037	0.4	4
22	Experimental Study on Performance of a Box Solar Cooker with Flat Plate Collector to Boil Water. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 180, 012032	0.4	9
21	Transient natural convection and conduction heat transfers on hot box of a coke drum in Pre-heating stage. <i>Journal of Physics: Conference Series</i> , 2017 , 801, 012096	0.3	
20	Field tests of a natural vacuum solar desalination system using hybrid solar collector. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 237, 012012	0.4	15
19	Performance and emission characteristics of a small diesel engine run in dual-fuel (diesel-biogas) mode. <i>Case Studies in Thermal Engineering</i> , 2017 , 10, 179-191	5.6	60
18	Performance and Characteristics of Heat Pump Clothes Drier. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 180, 012027	0.4	
17	Experimental study on a prototype solar water heater using refrigerant R141b as a transfer fluid. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 237, 012014	0.4	2
16	Internal combustion engine run on biogas is a potential solution to meet Indonesia emission target. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 237, 012013	0.4	2
15	Performance of a small compression ignition engine fuelled by liquified petroleum gas. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 237, 012011	0.4	2
14	Development of software for estimating clear sky solar radiation in Indonesia. <i>Journal of Physics: Conference Series</i> , 2017 , 801, 012093	0.3	2
13	Performance and Emissions of a Small Compression Ignition Engine Run on Dual-fuel Mode (Diesel-Raw biogas). <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 180, 012025	0.4	1
12	New Similarity. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 180, 012297	0.4	8
11	Performance of a clothes drying cabinet by utilizing waste heat from a split-type residential air conditioner. <i>Case Studies in Thermal Engineering</i> , 2016 , 8, 105-114	5.6	13

10	Experimental study on solar-powered adsorption refrigeration cycle with activated alumina and activated carbon as adsorbent. <i>Case Studies in Thermal Engineering</i> , 2016 , 7, 36-46	5.6	36
9	Experimental Study of Solar Refrigerator System using Activated Alumina and Methanol Adsorption Pair 2016 , 7, 910		21
8	Study on the performance of natural vacuum desalination system using low grade heat source. <i>Case Studies in Thermal Engineering</i> , 2016 , 8, 346-358	5.6	35
7	Study on effectiveness of continuous solar dryer integrated with desiccant thermal storage for drying cocoa beans. <i>Case Studies in Thermal Engineering</i> , 2015 , 5, 32-40	5.6	83
6	Impact Fracture of Jointed Steel Plates of Bolted Joint of Cars. <i>Applied Mechanics and Materials</i> , 2014 , 566, 232-237	0.3	
5	Shear fracture of jointed steel plates of bolted joints under impact load. <i>Journal of Physics: Conference Series</i> , 2013 , 451, 012007	0.3	2
4	Impact extractive fracture of jointed steel plates of a bolted joint. <i>EPJ Web of Conferences</i> , 2012 , 26, 01013	0.3	1
3	Crack Propagation and Remaining Life Assessment of Coke Drums Due to Thermal Stresses. <i>Journal of Thermal Stresses</i> , 2012 , 35, 1095-1107	2.2	1
2	Study on the Effects of Switching Temperature on the Thermal Fatigue Life of the Shell-to-Skirt Junction of Coke Drum. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2011 , 133,	1.2	7
1	Initiation of Bulges in a Coke Drum Subjected to Cyclic Heating and Cooling, also Cyclic Mechanical Loads. <i>Journal of Thermal Stresses</i> , 2010 , 33, 964-976	2.2	5