

# Himsar Ambarita

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

636  
citations

759055

12  
h-index

642610

23  
g-index

90  
all docs

90  
docs citations

90  
times ranked

386  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.8	108
2	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.	2.8	79
3	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.	2.8	50
4	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.	2.8	47
5	Bio-Pellet Fuel from Oil Palm Empty Fruit Bunches (EFB): Using European Standards for Quality Testing. <i>Sustainability</i> , 2018, 10, 4443.	1.6	27
6	A Study on Adsorption Refrigerator Driven by Solar Collector Using Indonesian Activated Carbon. <i>Journal of Engineering and Technological Sciences</i> , 2018, 49, 657.	0.3	25
7	Experimental Study of Solar Refrigerator System using Activated Alumina and Methanol Adsorption Pair. <i>International Journal of Technology</i> , 2016, 7, 910.	0.4	24
8	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.	0.3	21
9	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.	0.3	20
10	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.	0.3	18
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.	2.8	17
12	Experimental Study on Melting and Solidification of Phase Change Material Thermal Storage. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 180, 012030.	0.3	14
13	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, .	0.4	11
14	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.	0.3	11
15	New Similarity. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 180, 012297.	0.3	9
16	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.	0.3	9
17	Modeling of Linear and Non-linear Compression Processes of Sunflower Bulk Oilseeds. <i>Energies</i> , 2019, 12, 2999.	1.6	9
18	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.	1.1	8

#	ARTICLE	IF	CITATIONS
19	Talenta. Journal of Physics: Conference Series, 2018, 1116, 022033.	0.3	7
20	A field survey on coffee beans drying methods of Indonesian small holder farmers. IOP Conference Series: Materials Science and Engineering, 2017, 237, 012037.	0.3	6
21	A preliminary field test of a natural vacuum solar desalination unit using hybrid solar collector. AIP Conference Proceedings, 2018, , .	0.3	6
22	Energy analysis of double slope aktive solar still. IOP Conference Series: Materials Science and Engineering, 2020, 725, 012007.	0.3	6
23	The potency of solar energy on Medan city of Indonesia: Comparison of clear sky, satellite and field measurements. AIP Conference Proceedings, 2020, , .	0.3	6
24	Exergy analysis of double slope passive solar still. IOP Conference Series: Materials Science and Engineering, 2020, 725, 012005.	0.3	6
25	Numerical study on the effects of absorptivity on performance of flat plate solar collector of a water heater. Journal of Physics: Conference Series, 2018, 978, 012099.	0.3	5
26	Performance analysis of low temperature heat source of organic Rankine cycle for geothermal application. IOP Conference Series: Materials Science and Engineering, 2018, 308, 012026.	0.3	5
27	Study on aerodynamics characteristics an urban concept car for energy-efficient race. IOP Conference Series: Materials Science and Engineering, 2018, 343, 012025.	0.3	5
28	Performance, rate of heat release, and combustion stability of dual-fuel mode in a small diesel engine. Energy Science and Engineering, 2019, 7, 1333-1351.	1.9	5
29	Effect of engine load and biogas flow rate to the performance of a compression ignition engine run in dual-fuel (diesel/biogas) mode. IOP Conference Series: Materials Science and Engineering, 2018, 309, 012006.	0.3	4
30	Social and technical barriers that affect the growth of small-scale hydropower independent power producers in Indonesia. IOP Conference Series: Materials Science and Engineering, 2018, 420, 012041.	0.3	4
31	Crack Propagation and Remaining Life Assessment of Coke Drums Due to Thermal Stresses. Journal of Thermal Stresses, 2012, 35, 1095-1107.	1.1	3
32	Shear fracture of jointed steel plates of bolted joints under impact load. Journal of Physics: Conference Series, 2013, 451, 012007.	0.3	3
33	Numerical Study on Natural Vacuum Solar Desalination System with Varying Heat Source Temperature. IOP Conference Series: Materials Science and Engineering, 2017, 180, 012024.	0.3	3
34	Internal combustion engine run on biogas is a potential solution to meet Indonesia emission target. IOP Conference Series: Materials Science and Engineering, 0, 237, 012013.	0.3	3
35	Development of software for estimating clear sky solar radiation in Indonesia. Journal of Physics: Conference Series, 2017, 801, 012093.	0.3	3
36	Germination performance of Coffea arabica L. genotypes from different altitude, precipitation and temperature of seeds producing farms in Sumatera Utara of Indonesia. IOP Conference Series: Earth and Environmental Science, 2018, 205, 012013.	0.2	3

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37	Numerical Study on Radiation Effects to Evaporator in Natural Vacuum Solar Desalination System. IOP Conference Series: Materials Science and Engineering, 2018, 300, 012059.	0.3	3
38	Effect of Drying Whole and Half Chili Pods Using a Solar Dryer with CaCl <sub>2</sub> Desiccant on Quality of Powder Chili. International Journal of Food Science, 2021, 2021, 1-8.	0.9	3
39	Experimental study on a prototype solar water heater using refrigerant R141b as a transfer fluid. IOP Conference Series: Materials Science and Engineering, 2017, 237, 012014.	0.3	2
40	Performance of a small compression ignition engine fuelled by liquified petroleum gas. IOP Conference Series: Materials Science and Engineering, 2017, 237, 012011.	0.3	2
41	Performance and Emissions of a Small Compression Ignition Engine Run on Dual-fuel Mode (Diesel-Raw) Tj ETQq1 1,0,784314, rgBT /Ove	0.3	2
42	Effectiveness of a heat exchanger in a heat pump clothes dryer. IOP Conference Series: Materials Science and Engineering, 2018, 308, 012027.	0.3	2
43	Analysis of temperature and velocity distributions in a solar drying box coffee beans. IOP Conference Series: Materials Science and Engineering, 2018, 420, 012035.	0.3	2
44	Plant growth of genotypes of Arabica coffee on water stress. IOP Conference Series: Materials Science and Engineering, 2018, 420, 012066.	0.3	2
45	A numerical solution to simultaneous heat and mass transfer of convective drying of food. Journal of Physics: Conference Series, 2018, 1116, 032002.	0.3	2
46	Numerical simulation of the effect of baffle spacing to the effectiveness of a shell and tube heat exchanger. IOP Conference Series: Materials Science and Engineering, 0, 420, 012036.	0.3	2
47	Effects of the inclination angle on the performance of flat plate solar collector. Journal of Physics: Conference Series, 2018, 978, 012097.	0.3	2
48	Effect of Hot Feed Injection Time on Thermal Fatigue Life of Shell-to-Skirt Junction Area of Coke Drums. , 2010, , .		1
49	Impact extractive fracture of jointed steel plates of a bolted joint. EPJ Web of Conferences, 2012, 26, 01013.	0.1	1
50	A numerical study on combustion process in a small compression ignition engine run dual-fuel mode (diesel-biogas). Journal of Physics: Conference Series, 2017, 801, 012095.	0.3	1
51	Frequency Analysis of Chaotic Flow in Transition to Turbulence in Taylor-Couette System with Small Aspect Ratio. Journal of Physics: Conference Series, 2017, 801, 012063.	0.3	1
52	Numerical study on the effect of configuration of a simple box solar cooker for boiling water. IOP Conference Series: Materials Science and Engineering, 2018, 308, 012028.	0.3	1
53	Reduction of Peroxide Number in Crude Palm Oil (CPO) Using Rubber Fruit Shell (Heveabra silliensis) as Bio-sorbent. Oriental Journal of Chemistry, 2018, 34, 450-456.	0.1	1
54	A preliminary test of a flat-plate solar collector of hybrid solar water heater. Journal of Physics: Conference Series, 2018, 1116, 032003.	0.3	1

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55	Potency of energy saving and emission reduction from lighting system in residential sector of Indonesia. IOP Conference Series: Earth and Environmental Science, 2018, 126, 012021.	0.2	1
56	Fatigue life estimation on coke drum due to cycle optimization. Journal of Physics: Conference Series, 2018, 1005, 012002.	0.3	1
57	Inventory and projection of greenhouse gases emissions for Sumatera Utara Province. IOP Conference Series: Earth and Environmental Science, 2018, 126, 012114.	0.2	1
58	Experimental study on a prototype of heat pipe solar water heater using refrigerant R134a as a transfer fluid. IOP Conference Series: Materials Science and Engineering, 2018, 309, 012007.	0.3	1
59	The optimum temperature of single-stages vapor compression refrigeration cycle for Air-Conditioning unit. IOP Conference Series: Materials Science and Engineering, 2018, 420, 012038.	0.3	1
60	Development of solar water heater that suitable for Indonesian climate. IOP Conference Series: Materials Science and Engineering, 2018, 420, 012013.	0.3	1
61	Fluid flow and heat transfer characteristics of an enclosure with fin as a top cover of a solar collector. Journal of Physics: Conference Series, 2018, 978, 012096.	0.3	1
62	Numerical study on natural convection between double glasses top cover of a flat plate solar collector. IOP Conference Series: Materials Science and Engineering, 2018, 309, 012005.	0.3	1
63	Modification split type air conditioning unit by installing internal heat exchanger and condenser precooling. IOP Conference Series: Earth and Environmental Science, 2018, 126, 012018.	0.2	1
64	Numerical Study on Aerodynamic Drag Reduction of an Urban-Concept Car for Energy-Efficient Competition. MATEC Web of Conferences, 2018, 220, 02001.	0.1	1
65	Reliability enumeration model for the gear in a multi-functional machine. IOP Conference Series: Materials Science and Engineering, 2018, 308, 012019.	0.3	1
66	Study on exergy efficiency of active desalination coupled solar collector. IOP Conference Series: Materials Science and Engineering, 2020, 725, 012008.	0.3	1
67	Experimental and Numerical Study of Thermal Performance of Solar Water Heater. , 2021, , .		1
68	A Remaining Life Assessment for Shell-to-Skirt Juncture of Coke Drum With Crack-Like Flaws. , 2011, , .		0
69	Impact Fracture of Jointed Steel Plates of Bolted Joint of Cars. Applied Mechanics and Materials, 0, 566, 232-237.	0.2	0
70	Performance and Characteristics of Heat Pump Clothes Drier. IOP Conference Series: Materials Science and Engineering, 2017, 180, 012027.	0.3	0
71	Transient natural convection and conduction heat transfers on hot box of a coke drum in Pre-heating stage. Journal of Physics: Conference Series, 2017, 801, 012096.	0.3	0
72	Numerical simulation of heat transfer of an absorber with fin of a flat-plate type solar collector. IOP Conference Series: Materials Science and Engineering, 2018, 420, 012040.	0.3	0

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73	Evaluation of reference temperature in the pseudo density model for solving internal natural convection of gases. Journal of Physics: Conference Series, 2018, 1116, 032001.	0.3	0
74	Thermal characteristics of a flat-plate solar collector of hybrid solar water heater. Journal of Physics: Conference Series, 2018, 1116, 032007.	0.3	0
75	Numerical analysis of heat transfer rate from absorber of a flat-plate type solar collector to the tube. Journal of Physics: Conference Series, 2018, 1116, 032027.	0.3	0
76	A numerical simulation of fluid flow of Refrigeration R32 in annular pipe. IOP Conference Series: Materials Science and Engineering, 2018, 420, 012037.	0.3	0
77	Transient thermal stresses analysis and thermal fatigue damage evaluation for skirt attachment of coke drum. IOP Conference Series: Materials Science and Engineering, 2018, 308, 012029.	0.3	0
78	Experimental study on the performance of solar collector at angle 00 and 50at Medan city.. IOP Conference Series: Materials Science and Engineering, 2018, 420, 012039.	0.3	0
79	Investigation on a prototype of heat pipe type solar water heater using R 718 as working fluid. Journal of Physics: Conference Series, 2018, 1116, 032026.	0.3	0
80	Application of CFD in Indonesian Research: A review. Journal of Physics: Conference Series, 2018, 1005, 012014.	0.3	0
81	The optimum intermediate pressure of two-stages vapor compression refrigeration cycle for Air-Conditioning unit. Journal of Physics: Conference Series, 2018, 978, 012098.	0.3	0
82	Contribution of Solar Photovoltaic on the Reduction of Greenhouse Gas Emission in the Indonesia Power Sector. IOP Conference Series: Materials Science and Engineering, 2019, 648, 012028.	0.3	0
83	Comparison of calorific value of corn cobs, areca nut fiber and paper waste as alternative fuel. AIP Conference Proceedings, 2020, , .	0.3	0
84	Effect number of blades on the performance of h-Darrieus wind turbine with NACA 0018 air foil. IOP Conference Series: Materials Science and Engineering, 2021, 1122, 012078.	0.3	0
85	Utilization of Renewable and Conventional Energy in Palm Oil Industry in Indonesia. IOP Conference Series: Earth and Environmental Science, 2021, 753, 012002.	0.2	0
86	Comparison Coal Low-Grade Fuel and Mixture Palm Kernel Shell With Palm Fiber Fuel for Energy at Boiler Water Tube. , 2021, , .		0
87	Study of Fuel Consumption Hybrid-Electric Vehicles Over Different Speed Engine. , 2021, , .		0