

Cristiana Maia

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

676
citations

759233

12
h-index

580821

25
g-index

46
all docs

46
docs citations

46
times ranked

592
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical evaluation of the influence of geometric parameters and materials on the behavior of the airflow in a solar chimney. <i>Computers and Fluids</i> , 2009, 38, 625-636.	2.5	115
2	Technical feasibility assessment of a solar chimney for food drying. <i>Solar Energy</i> , 2008, 82, 198-205.	6.1	90
3	Fundamental Studies of Adhesion of Dust to PV Module Surfaces: Chemical and Physical Relationships at the Microscale. <i>IEEE Journal of Photovoltaics</i> , 2016, 6, 719-729.	2.5	69
4	Energy and exergy analysis of the airflow inside a solar chimney. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 27, 350-361.	16.4	50
5	An overview of the use of solar chimneys for desalination. <i>Solar Energy</i> , 2019, 183, 83-95.	6.1	47
6	Energy and exergy analysis of the drying of corn grains. <i>Renewable Energy</i> , 2021, 163, 1942-1950.	8.9	37
7	Analysis of the Airflow in a Prototype of a Solar Chimney Dryer. <i>Heat Transfer Engineering</i> , 2009, 30, 393-399.	1.9	35
8	Thermodynamic analysis of the drying process of bananas in a small-scale solar updraft tower in Brazil. <i>Renewable Energy</i> , 2017, 114, 1005-1012.	8.9	31
9	Solar drying of a solid waste from steel wire industry. <i>Applied Thermal Engineering</i> , 2014, 73, 104-110.	6.0	27
10	Thermodynamic analysis of a sustainable hybrid dryer. <i>Solar Energy</i> , 2020, 208, 388-398.	6.1	22
11	Evaluation of a tracking flat-plate solar collector in Brazil. <i>Applied Thermal Engineering</i> , 2014, 73, 953-962.	6.0	20
12	Performance evaluation of various nanofluids for parabolic trough collectors. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 50, 101865.	2.7	20
13	Fundamental studies of the adhesion of dust to PV module chemical and physical relationships at the microscale. , 2015, , .		14
14	Analysis of a new cross flow heat exchanger flow arrangement “ Extension to several rows. <i>International Journal of Thermal Sciences</i> , 2012, 55, 122-132.	4.9	13
15	CFD-DEM Simulation to Predict the Critical Velocity of Slurry Flows. <i>Journal of Applied Fluid Mechanics</i> , 2020, 13, 161-168.	0.2	12
16	Thermodynamic assessment of a small-scale solar chimney. <i>Renewable Energy</i> , 2022, 186, 35-50.	8.9	9
17	Soiling particle interactions on PV modules: Surface and inter-particle adhesion and chemistry effects. , 2016, , .		8
18	Analysis of working parameters for an ammonia-water absorption refrigeration system powered by automotive exhaust gas. <i>Case Studies in Thermal Engineering</i> , 2019, 13, 100406.	5.7	7

#	ARTICLE	IF	CITATIONS
19	Effects of variable-volume Helmholtz resonator on air mass flow rate of intake manifold. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	6
20	Evolutionary algorithms and the Preference Ranking Organization Method for Enrichment Evaluations as applied to a multiobjective design of shell-and-tube heat exchangers. Case Studies in Thermal Engineering, 2020, 17, 100564.	5.7	6
21	An experimental comparison between LPG and engine exhaust gas as energy source for an absorption refrigeration system. International Journal of Energy Research, 2012, 36, 820-828.	4.5	5
22	Distribution of the Fuel Flow in a Cold Start System Using an Electronic Fuel Injector. , 2007, , .		4
23	Interrelationships Among Non-Uniform Soiling Distributions and PV Module Performance Parameters, Climate Conditions, and Soiling Particle and Module Surface Properties. , 2017, , .		4
24	Parametric Analysis of Geometric Configurations of a Small-Scale Solar Chimney. Advanced Materials Research, 0, 1051, 975-979.	0.3	3
25	A Mathematical Model for the Exhaust Gas Temperature Profile of a Diesel Engine. Journal of Physics: Conference Series, 2015, 633, 012075.	0.4	3
26	Numerical modeling of the thermal-hydraulic behavior of wire-on-tube condensers operating with HFC-134a using homogeneous equilibrium model: evaluation of some void fraction correlations. Heat and Mass Transfer, 2016, 52, 183-195.	2.1	3
27	Comparative Investigations of the Effects of Soiling of PV Modules and Systems in Tropical, Subtropical, and Semi-Arid Climate Zones in Brazil. , 2019, , .		3
28	Assessment of the Fluid Dynamics Aspects of a Vehicle Ventilation System. International Journal of Ventilation, 2015, 14, 65-76.	0.4	2
29	Measurements of Potentials at Tap Contacts and Estimation of Resistance across Bonding Interfaces in InGaP/GaAs/Si Hybrid Triple-Junction Cells. , 2017, , .		2
30	Flow Past a Circular Cylinder: A Comparison Between Commercial Finite Volume and Finite Element Codes. Advanced Science, Engineering and Medicine, 2020, 12, 815-824.	0.3	2
31	Modeling and numerical simulation of slurry flow. Brazilian Journal of Development, 2019, 5, 20462-20477.	0.1	2
32	Weighted Average Solar Radiation in Brazil for CO2 Off-Cycle Credits using a Battery Charging Solar Roof. , 2015, , .		1
33	A Model to Estimate Ambient Conditions and Behavior of the Airflow Inside a Solar Chimney. , 2016, , 661-671.		1
34	OPTIMIZATION OF A SMALL SOLAR CHIMNEY. Acta Polytechnica, 2020, 60, 225-234.	0.6	1
35	Performance study of a baffled solar dryer. AIMS Energy, 2021, 9, 1136-1146.	1.9	1
36	A CSP-desalination system using a supercritical carbon dioxide Brayton cycle in Brazil. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, 1.	1.6	1

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37	EXPERIMENTAL EVALUATION OF THE IMPACT OF THE NEW EMISSIONS LIMITS ON THE VEHICLE FLOOR TEMPERATURE. , 2009, , .		0
38	Actual Climatic Solicitation on a Vehicle Vs Test of Thermal Fatigue Carried out in Laboratory. , 0, , .		0
39	Analysis of the Impact of the New Emissions Limits on the Temperatures of the Vehicle Floor. Applied Mechanics and Materials, 2012, 152-154, 976-981.	0.2	0
40	Comparison of Tests of Thermal Fatigue Carried Out in Laboratory with Tests Performed under Critical Environmental Conditions for a Vehicle. SAE International Journal of Passenger Cars - Mechanical Systems, 2012, 5, 425-432.	0.4	0
41	Investigation of the Predictive Ability of Two Advection Schemes on the Formation of a Turbulent Separation Bubble in a Boundary Layer Wind Tunnel. Applied Mechanics and Materials, 0, 477-478, 181-185.	0.2	0
42	Evaluation of Correlations for Natural Convection on the Behavior of a Wire-on-Tube Condenser. Advanced Materials Research, 2014, 1016, 774-777.	0.3	0
43	Determination of the Diameter of a Cylinder to Insertion in a Low-Speed Wind Tunnel Based on EFD and CFD. Applied Mechanics and Materials, 2015, 798, 165-169.	0.2	0
44	Numerical analysis of heat transfer in the exhaust gas flow in a diesel power generator. Journal of Physics: Conference Series, 2016, 745, 032015.	0.4	0
45	Energetic and Exergetic Analysis of Monocrystalline and Polycrystalline Photovoltaic Modules. , 2016, , .		0
46	Experimental Evaluation of the Influence of Infiltration on the Efficiency of Solar Flat Plate Collectors. , 2016, , .		0