

Paulo Rocha

List of Publications by Citations

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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.

22
papers

558
citations

10
h-index

23
g-index

25
ext. papers

685
ext. citations

5.6
avg, IF

3.84
L-index

#	Paper	IF	Citations
22	Comparison of seven numerical methods for determining Weibull parameters for wind energy generation in the northeast region of Brazil. <i>Applied Energy</i> , 2012 , 89, 395-400	10.7	259
21	k ⁺ SST (shear stress transport) turbulence model calibration: A case study on a small scale horizontal axis wind turbine. <i>Energy</i> , 2014 , 65, 412-418	7.9	84
20	An efficiency comparison of numerical methods for determining Weibull parameters for wind energy applications: A new approach applied to the northeast region of Brazil. <i>Energy Conversion and Management</i> , 2014 , 86, 801-808	10.6	56
19	A case study on the calibration of the k ⁺ SST (shear stress transport) turbulence model for small scale wind turbines designed with cambered and symmetrical airfoils. <i>Energy</i> , 2016 , 97, 144-150	7.9	32
18	Investigation of possible societal risk associated with wind power generation systems. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 19, 30-36	16.2	21
17	The effects of blade pitch angle on the performance of small-scale wind turbine in urban environments. <i>Energy</i> , 2018 , 148, 169-178	7.9	17
16	Classification of imbalance levels in a scaled wind turbine through detrended fluctuation analysis of vibration signals. <i>Renewable Energy</i> , 2016 , 96, 993-1002	8.1	15
15	Performance analysis of metaheuristic optimization algorithms in estimating the parameters of several wind speed distributions. <i>Applied Energy</i> , 2020 , 268, 114952	10.7	14
14	Estimation of daily, weekly and monthly global solar radiation using ANNs and a long data set: a case study of Fortaleza, in Brazilian Northeast region. <i>International Journal of Energy and Environmental Engineering</i> , 2019 , 10, 319-334	4	14
13	Application and analysis of the moving mesh algorithm AMI in a small scale HAWT: Validation with field test results against the frozen rotor approach. <i>Energy</i> , 2019 , 171, 819-829	7.9	10
12	Four heuristic optimization algorithms applied to wind energy: determination of Weibull curve parameters for three Brazilian sites. <i>International Journal of Energy and Environmental Engineering</i> , 2019 , 10, 1-12	4	8
11	Unbalance evaluation of a scaled wind turbine under different rotational regimes via detrended fluctuation analysis of vibration signals combined with pattern recognition techniques. <i>Energy</i> , 2019 , 171, 556-565	7.9	6
10	Experimental study of tray materials in a thermal desalination tower with controlled heat source. <i>Desalination</i> , 2015 , 374, 38-46	10.3	5
9	Mass transfer correlation for evaporation-condensation thermal process in the range of 70°C-95°C. <i>Renewable Energy</i> , 2013 , 53, 174-179	8.1	4
8	Global horizontal and direct normal solar irradiance modeling by the machine learning methods XGBoost and deep neural networks with CNN-LSTM layers: a case study using the GOES-16 satellite imagery. <i>International Journal of Energy and Environmental Engineering</i> , 1	4	4
7	Estudo e aplicaç de simulaç computacional em problemas simples de mecãica dos fluidos e transferãcia de calor - Parte II: Problemas clãssicos de transmissã de calor. <i>Revista Brasileira De Ensino De Fisica</i> , 2017 , 40,	0.4	2
6	Desempenho aerodinãmico de perfis NACA de quatro dãgitos em aerogeradores de pequeno porte para a agricultura familiar. <i>Semina:Ciencias Agrarias</i> , 2015 , 36, 1227	0.6	2

5	Application of the Cuckoo Search in the Adjustment of Weibull Curves for Wind Energy Using Wind Data of Petrolina City. <i>IEEE Latin America Transactions</i> , 2018 , 16, 2513-2520	0.7	2
4	Imbalance classification in a scaled-down wind turbine using radial basis function kernel and support vector machines. <i>Energy</i> , 2022 , 238, 122064	7.9	2
3	Analysis of different tracking intervals for Parabolic Trough Collectors for water disinfection in agricultural applications. <i>Semina:Ciencias Agrarias</i> , 2020 , 41, 7	0.6	1
2	Characterization and application of a selective coating for solar collectors from of the cashew nut shell liquid. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2020 , 234, 167-174	1.3	
1	Thermal behavior estimation of a solar wall operated by TiO ₂ nanofluids using several machine learning models. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022 , 44, 1		2