

# Paulo Rocha

## 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.

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	Imbalance classification in a scaled-down wind turbine using radial basis function kernel and support vector machines. <i>Energy</i> , <b>2022</b> , 238, 122064	7.9	2
21	Thermal behavior estimation of a solar wall operated by TiO <sub>2</sub> nanofluids using several machine learning models. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2022</b> , 44, 1	2	
20	Performance analysis of metaheuristic optimization algorithms in estimating the parameters of several wind speed distributions. <i>Applied Energy</i> , <b>2020</b> , 268, 114952	10.7	14
19	Analysis of different tracking intervals for Parabolic Trough Collectors for water disinfection in agricultural applications. <i>Semina:Ciencias Agrarias</i> , <b>2020</b> , 41, 7	0.6	1
18	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> , <b>2020</b> , 234, 167-174	1.3	
17	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> , <b>2019</b> , 171, 819-829	7.9	10
16	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> , <b>2019</b> , 171, 556-565	7.9	6
15	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> , <b>2019</b> , 10, 319-334	4	14
14	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> , <b>2019</b> , 10, 1-12	4	8
13	The effects of blade pitch angle on the performance of small-scale wind turbine in urban environments. <i>Energy</i> , <b>2018</b> , 148, 169-178	7.9	17
12	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> , <b>2018</b> , 16, 2513-2520	0.7	2
11	Estudo e aplicaçã de simulaçã computacional em problemas simples de mecãica dos fluidos e transferêcia de calor - Parte II: Problemas clãssicos de transmissã de calor. <i>Revista Brasileira De Ensino De Fisica</i> , <b>2017</b> , 40,	0.4	2
10	Classification of imbalance levels in a scaled wind turbine through detrended fluctuation analysis of vibration signals. <i>Renewable Energy</i> , <b>2016</b> , 96, 993-1002	8.1	15
9	A case study on the calibration of the k- $\epsilon$ SST (shear stress transport) turbulence model for small scale wind turbines designed with cambered and symmetrical airfoils. <i>Energy</i> , <b>2016</b> , 97, 144-150	7.9	32
8	Experimental study of tray materials in a thermal desalination tower with controlled heat source. <i>Desalination</i> , <b>2015</b> , 374, 38-46	10.3	5
7	Desempenho aerodinãmico de perfis NACA de quatro dãgitos em aerogeradores de pequeno porte para a agricultura familiar. <i>Semina:Ciencias Agrarias</i> , <b>2015</b> , 36, 1227	0.6	2
6	k- $\epsilon$ SST (shear stress transport) turbulence model calibration: A case study on a small scale horizontal axis wind turbine. <i>Energy</i> , <b>2014</b> , 65, 412-418	7.9	84

5	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> , <b>2014</b> , 86, 801-808	10.6	56
4	Mass transfer correlation for evaporation&condensation thermal process in the range of 70 °C&95 °C. <i>Renewable Energy</i> , <b>2013</b> , 53, 174-179	8.1	4
3	Investigation of possible societal risk associated with wind power generation systems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 19, 30-36	16.2	21
2	Comparison of seven numerical methods for determining Weibull parameters for wind energy generation in the northeast region of Brazil. <i>Applied Energy</i> , <b>2012</b> , 89, 395-400	10.7	259
1	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