

Hugo Pedro

List of Publications by Year in descending order

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28
papers

2,891
citations

331259

21
h-index

552369

26
g-index

28
all docs

28
docs citations

28
times ranked

2226
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive dataset for the accelerated development and benchmarking of solar forecasting methods. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	0.8	69
2	Adaptive image features for intra-hour solar forecasts. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, 036101.	0.8	19
3	Probabilistic Solar Forecasting Using Quantile Regression Models. <i>Energies</i> , 2017, 10, 1591.	1.6	71
4	Quantitative evaluation of the impact of cloud transmittance and cloud velocity on the accuracy of short-term DNI forecasts. <i>Renewable Energy</i> , 2016, 86, 1362-1371.	4.3	45
5	Benefits of solar forecasting for energy imbalance markets. <i>Renewable Energy</i> , 2016, 86, 819-830.	4.3	123
6	Real-time prediction intervals for intra-hour DNI forecasts. <i>Renewable Energy</i> , 2015, 83, 234-244.	4.3	77
7	On the role of lagged exogenous variables and spatio-temporal correlations in improving the accuracy of solar forecasting methods. <i>Renewable Energy</i> , 2015, 78, 203-218.	4.3	46
8	Real-time forecasting of solar irradiance ramps with smart image processing. <i>Solar Energy</i> , 2015, 114, 91-104.	2.9	112
9	Nearest-neighbor methodology for prediction of intra-hour global horizontal and direct normal irradiances. <i>Renewable Energy</i> , 2015, 80, 770-782.	4.3	90
10	Optimized heat transfer correlations for pure and blended refrigerants. <i>International Journal of Heat and Mass Transfer</i> , 2015, 85, 577-584.	2.5	5
11	Performance evaluation of various cryogenic energy storage systems. <i>Energy</i> , 2015, 90, 1024-1032.	4.5	71
12	Short-term reforecasting of power output from a 48 MWe solar PV plant. <i>Solar Energy</i> , 2015, 112, 68-77.	2.9	200
13	A Smart Image-Based Cloud Detection System for Intrahour Solar Irradiance Forecasts. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 1995-2007.	0.5	65
14	Clustering the solar resource for grid management in island mode. <i>Solar Energy</i> , 2014, 110, 507-518.	2.9	22
15	Ensemble re-forecasting methods for enhanced power load prediction. <i>Energy Conversion and Management</i> , 2014, 80, 582-590.	4.4	25
16	Cloud-tracking methodology for intra-hour DNI forecasting. <i>Solar Energy</i> , 2014, 102, 267-275.	2.9	132
17	Genetic optimization of heat transfer correlations for evaporator tube flows. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 330-339.	2.5	13
18	Hybrid intra-hour DNI forecasts with sky image processing enhanced by stochastic learning. <i>Solar Energy</i> , 2013, 98, 592-603.	2.9	138

#	ARTICLE	IF	CITATIONS
19	Hybrid solar forecasting method uses satellite imaging and ground telemetry as inputs to ANNs. Solar Energy, 2013, 92, 176-188.	2.9	138
20	Impact of onsite solar generation on system load demand forecast. Energy Conversion and Management, 2013, 75, 701-709.	4.4	31
21	Solar forecasting methods for renewable energy integration. Progress in Energy and Combustion Science, 2013, 39, 535-576.	15.8	742
22	Stochastic-Learning Methods. , 2013, , 383-406.		18
23	Assessment of forecasting techniques for solar power production with no exogenous inputs. Solar Energy, 2012, 86, 2017-2028.	2.9	497
24	On a cellular division method for topology optimization. International Journal for Numerical Methods in Engineering, 2011, 88, 1175-1197.	1.5	30
25	Formal Evolutionary Development of Low-Entropy Dendritic Thermal Systems. Journal of Thermophysics and Heat Transfer, 2009, 23, 822-827.	0.9	2
26	Variable Order Modeling of Diffusive-convective Effects on the Oscillatory Flow Past a Sphere. JVC/Journal of Vibration and Control, 2008, 14, 1659-1672.	1.5	98
27	Effectiveness of Complex Design Through an Evolutionary Approach. Journal of Thermophysics and Heat Transfer, 2008, 22, 115-118.	0.9	10
28	Numerical Study of the Wave Impact on a Square Column Using Large Eddy Simulation. , 2007, , 1015.		2