

# Hugo Pedro

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

2,891  
citations

331670

21  
h-index

552781

26  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2226  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar forecasting methods for renewable energy integration. Progress in Energy and Combustion Science, 2013, 39, 535-576.	31.2	742
2	Assessment of forecasting techniques for solar power production with no exogenous inputs. Solar Energy, 2012, 86, 2017-2028.	6.1	497
3	Short-term reforecasting of power output from a 48 MWe solar PV plant. Solar Energy, 2015, 112, 68-77.	6.1	200
4	Hybrid intra-hour DNI forecasts with sky image processing enhanced by stochastic learning. Solar Energy, 2013, 98, 592-603.	6.1	138
5	Hybrid solar forecasting method uses satellite imaging and ground telemetry as inputs to ANNs. Solar Energy, 2013, 92, 176-188.	6.1	138
6	Cloud-tracking methodology for intra-hour DNI forecasting. Solar Energy, 2014, 102, 267-275.	6.1	132
7	Benefits of solar forecasting for energy imbalance markets. Renewable Energy, 2016, 86, 819-830.	8.9	123
8	Real-time forecasting of solar irradiance ramps with smart image processing. Solar Energy, 2015, 114, 91-104.	6.1	112
9	Variable Order Modeling of Diffusive-convective Effects on the Oscillatory Flow Past a Sphere. JVC/Journal of Vibration and Control, 2008, 14, 1659-1672.	2.6	98
10	Nearest-neighbor methodology for prediction of intra-hour global horizontal and direct normal irradiances. Renewable Energy, 2015, 80, 770-782.	8.9	90
11	Real-time prediction intervals for intra-hour DNI forecasts. Renewable Energy, 2015, 83, 234-244.	8.9	77
12	Performance evaluation of various cryogenic energy storage systems. Energy, 2015, 90, 1024-1032.	8.8	71
13	Probabilistic Solar Forecasting Using Quantile Regression Models. Energies, 2017, 10, 1591.	3.1	71
14	A comprehensive dataset for the accelerated development and benchmarking of solar forecasting methods. Journal of Renewable and Sustainable Energy, 2019, 11, .	2.0	69
15	A Smart Image-Based Cloud Detection System for Intrahour Solar Irradiance Forecasts. Journal of Atmospheric and Oceanic Technology, 2014, 31, 1995-2007.	1.3	65
16	On the role of lagged exogenous variables and spatio-temporal correlations in improving the accuracy of solar forecasting methods. Renewable Energy, 2015, 78, 203-218.	8.9	46
17	Quantitative evaluation of the impact of cloud transmittance and cloud velocity on the accuracy of short-term DNI forecasts. Renewable Energy, 2016, 86, 1362-1371.	8.9	45
18	Impact of onsite solar generation on system load demand forecast. Energy Conversion and Management, 2013, 75, 701-709.	9.2	31

#	ARTICLE	IF	CITATIONS
19	On a cellular division method for topology optimization. International Journal for Numerical Methods in Engineering, 2011, 88, 1175-1197.	2.8	30
20	Ensemble re-forecasting methods for enhanced power load prediction. Energy Conversion and Management, 2014, 80, 582-590.	9.2	25
21	Clustering the solar resource for grid management in island mode. Solar Energy, 2014, 110, 507-518.	6.1	22
22	Adaptive image features for intra-hour solar forecasts. Journal of Renewable and Sustainable Energy, 2019, 11, 036101.	2.0	19
23	Stochastic-Learning Methods. , 2013, , 383-406.		18
24	Genetic optimization of heat transfer correlations for evaporator tube flows. International Journal of Heat and Mass Transfer, 2014, 70, 330-339.	4.8	13
25	Effectiveness of Complex Design Through an Evolutionary Approach. Journal of Thermophysics and Heat Transfer, 2008, 22, 115-118.	1.6	10
26	Optimized heat transfer correlations for pure and blended refrigerants. International Journal of Heat and Mass Transfer, 2015, 85, 577-584.	4.8	5
27	Numerical Study of the Wave Impact on a Square Column Using Large Eddy Simulation. , 2007, , 1015.		2
28	Formal Evolutionary Development of Low-Entropy Dendritic Thermal Systems. Journal of Thermophysics and Heat Transfer, 2009, 23, 822-827.	1.6	2