Fernando Antonanzas-Torres

List of Publications by Year
in descending order

44 papers	1,997 citations	393982 19 h-index	264894 42 g-index
45 all docs	45 docs citations	45 times ranked	1934 citing authors

#	Article	IF	Citations
1	Review of photovoltaic power forecasting. Solar Energy, 2016, 136, 78-111.	2.9	828
2	Verification of deterministic solar forecasts. Solar Energy, 2020, 210, 20-37.	2.9	142
3	Clear sky solar irradiance models: A review of seventy models. Renewable and Sustainable Energy Reviews, 2019, 107, 374-387.	8.2	110
4	Extensive validation of CM SAF surface radiation products over Europe. Remote Sensing of Environment, 2017, 199, 171-186.	4.6	80
5	Sensitivity of satellite-based methods for deriving solar radiation to different choice of aerosol input and models. Renewable Energy, 2014, 68, 785-792.	4.3	62
6	Effect of soiling in bifacial PV modules and cleaning schedule optimization. Energy Conversion and Management, 2018, 174, 615-625.	4.4	61
7	Generation of daily global solar irradiation with support vector machines for regression. Energy Conversion and Management, 2015, 96, 277-286.	4.4	59
8	Estimation methods for global solar radiation: Case study evaluation of five different approaches in central Spain. Renewable and Sustainable Energy Reviews, 2017, 77, 1098-1113.	8.2	53
9	Solar irradiation mapping with exogenous data from support vector regression machines estimations. Energy Conversion and Management, 2015, 100, 380-390.	4.4	48
10	State of the art and future prospects for solar PV development in Chile. Renewable and Sustainable Energy Reviews, 2018, 92, 701-727.	8.2	44
11	Evaluation and improvement of empirical models of global solar irradiation: Case study northern Spain. Renewable Energy, 2013, 60, 604-614.	4.3	43
12	GA-PARSIMONY: A GA-SVR approach with feature selection and parameter optimization to obtain parsimonious solutions for predicting temperature settings in a continuous annealing furnace. Applied Soft Computing Journal, 2015, 35, 13-28.	4.1	42
13	Smart baseline models for solar irradiation forecasting. Energy Conversion and Management, 2016, 108, 539-548.	4.4	42
14	Potential solar thermal integration in Spanish combined cycle gas turbines. Renewable and Sustainable Energy Reviews, 2014, 37, 36-46.	8.2	39
15	Comparative assessment of global irradiation from a satellite estimate model (CM SAF) and on-ground measurements (SIAR): A Spanish case study. Renewable and Sustainable Energy Reviews, 2013, 21, 248-261.	8.2	36
16	State-of-the-Art of Mini Grids for Rural Electrification in West Africa. Energies, 2021, 14, 990.	1.6	32
17	A numerical-informational approach for characterising the ductile behaviour of the T-stub component. Part 2: Parsimonious soft-computing-based metamodel. Engineering Structures, 2015, 82, 249-260.	2.6	26
18	Towards the optimization of convective losses in photovoltaic–thermal panels. Solar Energy, 2015, 116, 323-336.	2.9	24

#	ARTICLE	IF	CITATIONS
19	Downscaling of global solar irradiation in complex areas in R. Journal of Renewable and Sustainable Energy, 2014, 6, 063105.	0.8	21
20	A numerical-informational approach for characterising the ductile behaviour of the T-stub component. Part 1: Refined finite element model and test validation. Engineering Structures, 2015, 82, 236-248.	2.6	20
21	Evaluation of classical parametric models for estimating solar radiation in the Eastern Mediterranean region of Turkey. Renewable and Sustainable Energy Reviews, 2018, 82, 2053-2065.	8.2	19
22	Improving daily output of global to direct solar irradiance models with ground measurements. Journal of Renewable and Sustainable Energy, 2013, 5, .	0.8	18
23	Impact of atmospheric components on solar clear-sky models at different elevation: Case study Canary Islands. Energy Conversion and Management, 2016, 109, 122-129.	4.4	18
24	Evaluation of a novel GA-based methodology for model structure selection: The GA-PARSIMONY. Neurocomputing, 2018, 271, 9-17.	3.5	16
25	Towards the hybridization of gas-fired power plants: A case study of Algeria. Renewable and Sustainable Energy Reviews, 2015, 51, 116-124.	8.2	15
26	Estimation of solar global irradiation in remote areas. Journal of Renewable and Sustainable Energy, 2015, 7, 023136.	0.8	14
27	Benchmark of algorithms for solar clear-sky detection. Journal of Renewable and Sustainable Energy, 2016, 8, .	0.8	13
28	Influence of electricity market structures on deterministic solar forecasting verification. Solar Energy, 2020, 210, 44-46.	2.9	13
29	Overall models based on ensemble methods for predicting continuous annealing furnace temperature settings. Ironmaking and Steelmaking, 2014, 41, 51-60.	1.1	11
30	Towards downscaling of aerosol gridded dataset for improving solar resource assessment, an application to Spain. Renewable Energy, 2014, 71, 534-544.	4.3	10
31	Dynamic model and experimental validation for a gas cooler of a CO_2 heat pump for heating residential water. Science and Technology for the Built Environment, 2016, 22, 30-40.	0.8	10
32	Parsimonious Support Vector Machines Modelling for Set Points in Industrial Processes Based on Genetic Algorithm Optimization. Advances in Intelligent Systems and Computing, 2014, , 1-10.	0.5	6
33	Environmental Impact of Solar Home Systems in Sub-Saharan Africa. Sustainability, 2021, 13, 9708.	1.6	5
34	Solar E-Cooking with Low-Power Solar Home Systems for Sub-Saharan Africa. Sustainability, 2021, 13, 12241.	1.6	3
35	Environmental life cycle impact of off-grid rural electrification with mini grids in West Africa. Sustainable Energy Technologies and Assessments, 2021, 47, 101471.	1.7	2
36	Multilayer-Perceptron Network Ensemble Modeling with Genetic Algorithms for the Capacity of Bolted Lap Joint. Lecture Notes in Computer Science, 2012, , 545-556.	1.0	2

#	ARTICLE	IF	CITATIONS
37	Downscaling of Solar Irradiation from Satellite Estimates. Lecture Notes in Management and Industrial Engineering, 2015, , 197-205.	0.3	2
38	Estimation of Daily Global Horizontal Irradiation Using Extreme Gradient Boosting Machines. Advances in Intelligent Systems and Computing, 2017, , 105-113.	0.5	1
39	Optimization of Solar Integration in Combined Cycle Gas Turbines (ISCC). Advances in Intelligent Systems and Computing, 2014, , 31-40.	0.5	1
40	Application of Genetic Algorithms to Optimize a Truncated Mean k-Nearest Neighbours Regressor for Hotel Reservation Forecasting. Lecture Notes in Computer Science, 2012, , 79-90.	1.0	1
41	An Overall Performance Comparative of GA-PARSIMONY Methodology with Regression Algorithms. Advances in Intelligent Systems and Computing, 2014, , 53-62.	0.5	1
42	Methodology based on micro-projects in DIY desktop machines for educational purposes in engineering degrees. , 0, , .		1
43	Hybrid Modelling of Multilayer Perceptron Ensembles for Predicting the Response of Bolted Lap Joints. Logic Journal of the IGPL, 2015, 23, 451-462.	1.3	0
44	Current Status and Future Trends of the Evaluation of Solar Global Irradiation using Soft-Computing-Based Models. Advances in Environmental Engineering and Green Technologies Book Series, 2015, , 1-22.	0.3	0