

Carlos Fernández-Peruchena

List of Publications by Year in descending order

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51
papers

806
citations

516710

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times ranked

845
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Assessment of Seawater, Wet and Dry Cooling in a 50-MW Parabolic Trough Collectors Concentrated Solar Power Plant in Kuwait. Journal of Solar Energy Engineering, Transactions of the ASME, 2022, 144, .	1.8	3
2	Performance analysis of factory-made thermosiphon solar water heating systems. Renewable Energy, 2021, 164, 1215-1229.	8.9	4
3	Industrial Application of Synthetic Irradiance: Case Study of Solar Yield. , 2021, , 1-34.		1
4	Photovoltaic generation on vertical façades in urban context from open satellite-derived solar resource data. Solar Energy, 2021, 224, 1396-1405.	6.1	9
5	FAIR Metadata Standards for Low Carbon Energy Research – A Review of Practices and How to Advance. Energies, 2021, 14, 6692.	3.1	6
6	Typical Meteorological Year methodologies applied to solar spectral irradiance for PV applications. Energy, 2020, 190, 116453.	8.8	15
7	Assessment and improvement of modeling the atmospheric attenuation based on aerosol optical depth information with applicability to solar tower plants. Energy, 2020, 208, 118399.	8.8	6
8	Site-Adaptation of Modeled Solar Radiation Data: The SiteAdapt Procedure. Remote Sensing, 2020, 12, 2127.	4.0	18
9	Benchmarking on improvement and site-adaptation techniques for modeled solar radiation datasets. Solar Energy, 2020, 201, 469-479.	6.1	42
10	High-accuracy real-time monitoring of solar radiation attenuation in commercial solar towers. AIP Conference Proceedings, 2019, , .	0.4	1
11	Solar Power Plant Performance. Green Energy and Technology, 2019, , 283-300.	0.6	2
12	Generation of synthetic solar datasets for risk analysis. Solar Energy, 2019, 187, 212-225.	6.1	15
13	Is Concentrated Solar Power (CSP) a feasible option for Sub-Saharan Africa?: Investigating the techno-economic feasibility of CSP in Tanzania. Renewable Energy, 2019, 135, 1224-1240.	8.9	64
14	Sampling Design Optimization of Ground Radiometric Stations. Green Energy and Technology, 2019, , 253-281.	0.6	1
15	High frequency generation of coupled GHI and DNI based on clustered Dynamic Paths. Solar Energy, 2018, 159, 453-457.	6.1	18
16	Methodology to synthetically downscale DNI time series from 1-h to 1-min temporal resolution with geographic flexibility. Solar Energy, 2018, 162, 573-584.	6.1	16
17	Statcasting: A machine learning based methodology for post-processing ensemble predictions of direct normal solar irradiance. AIP Conference Proceedings, 2018, , .	0.4	0
18	Probabilistic assessment of concentrated solar power plants yield: The EVA methodology. Renewable and Sustainable Energy Reviews, 2018, 91, 802-811.	16.4	12

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19	Towards A Feasible Deployment Of Solar Energy Technologies. , 2018, , .		0
20	Dynamic Paths: Towards high frequency direct normal irradiance forecasts. Energy, 2017, 132, 315-323.	8.8	8
21	Uncertainty in monthly GHI due to daily data gaps. Solar Energy, 2017, 157, 827-829.	6.1	6
22	A methodology for probabilistic assessment of solar thermal power plants yield. AIP Conference Proceedings, 2017, , .	0.4	0
23	Increasing the temporal resolution of direct normal solar irradiance forecasted series. AIP Conference Proceedings, 2017, , .	0.4	2
24	A novel procedure for generating solar irradiance TSYs. AIP Conference Proceedings, 2017, , .	0.4	4
25	Analysis on the long-term relationship between DNI and CSP yield production for different technologies. Solar Energy, 2017, 155, 1121-1129.	6.1	13
26	A combination of HARMONIE short time direct normal irradiance forecasts and machine learning: The #hashtdim procedure. AIP Conference Proceedings, 2017, , .	0.4	1
27	PreFlexMS: Predictable Flexible Molten Salts Solar Power Plants. Impact, 2017, 2017, 58-60.	0.1	3
28	The temporal distortion index (TDI). A new procedure to analyze solar radiation forecasts. AIP Conference Proceedings, 2017, , .	0.4	1
29	A clustering approach for the analysis of solar energy yields: A case study for concentrating solar thermal power plants. AIP Conference Proceedings, 2016, , .	0.4	4
30	A methodology for calculating percentile values of annual direct normal solar irradiation series. AIP Conference Proceedings, 2016, , .	0.4	2
31	A statistical characterization of the long-term solar resource: Towards risk assessment for solar power projects. Solar Energy, 2016, 123, 29-39.	6.1	32
32	A simple and efficient procedure for increasing the temporal resolution of global horizontal solar irradiance series. Renewable Energy, 2016, 86, 375-383.	8.9	25
33	Experimental Validation of a Novel Methodology for Fast an Accurate Analysis of Solar Energy Yields Based on Cluster Analysis. , 2016, , .		1
34	Increasing the Temporal Resolution of Direct Normal Solar Irradiance Series in a Desert Location. Energy Procedia, 2015, 69, 1981-1988.	1.8	3
35	A comparison of one-minute probability density distributions of global horizontal solar irradiance conditioned to the optical air mass and hourly averages in different climate zones. Solar Energy, 2015, 112, 425-436.	6.1	22
36	Solar resources and power potential mapping in Vietnam using satellite-derived and GIS-based information. Energy Conversion and Management, 2015, 98, 348-358.	9.2	99

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37	Increasing the temporal resolution of direct normal solar irradiance series in different climatic zones. <i>Solar Energy</i> , 2015, 115, 255-263.	6.1	30
38	MUS: A multiscale stochastic model for generating plausible meteorological years designed for multiyear solar energy yield simulations. <i>Solar Energy</i> , 2015, 120, 244-256.	6.1	23
39	A New Methodology to Generate Long Time Series of Solar Radiation Based on Stochastic Analysis. <i>Energy Procedia</i> , 2014, 57, 1053-1059.	1.8	6
40	Generation of Series of High Frequency DNI Years Consistent with Annual and Monthly Long-term Averages using Measured DNI Data. <i>Energy Procedia</i> , 2014, 49, 2321-2329.	1.8	20
41	A Combination of Heliosat-1 and Heliosat-2 Methods for Deriving Solar Radiation from Satellite Images. <i>Energy Procedia</i> , 2014, 57, 1037-1043.	1.8	7
42	An Advanced Concept of Altered Auditory Feedback as a Prosthesis-Therapy for Stuttering Founded on a Non-Speech Etiologic Paradigm. , 2011, , 76-118.		2
43	New methodology of solar radiation evaluation using free access databases in specific locations. <i>Renewable Energy</i> , 2010, 35, 2792-2798.	8.9	17
44	Smart Sensors and Virtual Physiology Human Approach as a Basis of Personalized Therapies in Diabetes Mellitus. <i>Open Biomedical Engineering Journal</i> , 2010, 4, 236-249.	0.5	7
45	Solar Radiation Estimation and Prediction Through Aerosol and Cloud Cover Forecast. , 2010, , .		0
46	Quality Control and Correction Time of Radiation Measurements at Meteorological Stations. , 2010, , .		0
47	Analysis of different comparison parameters applied to solar radiation data from satellite and German radiometric stations. <i>Solar Energy</i> , 2009, 83, 118-125.	6.1	111
48	Model-Based Methodology for the Analysis of e-Health Systems Diffusion: Case Study of a Knowledge-Centered Telehealthcare System Based on a Mixed License. <i>Series in Biomedical Engineering</i> , 2009, , 75-94.	0.5	2
49	Myosin II Contributes to Fusion Pore Expansion during Exocytosis. <i>Journal of Biological Chemistry</i> , 2008, 283, 10949-10957.	3.4	88
50	Fusion pore regulation of transmitter release. <i>Brain Research Reviews</i> , 2005, 49, 406-415.	9.0	34
51	An Advanced Concept of Altered Auditory Feedback as a Prosthesis-Therapy for Stuttering Founded on a Non-Speech Etiologic Paradigm. , 0, , 1284-1326.		0