Paulo Canhoto

List of Publications by Year
in descending order

43 papers	696 citations	623574 14 h-index	610775 24 g-index
45 all docs	45 docs citations	45 times ranked	703 citing authors

#	Article	IF	Citations
1	Atmospheric electrical field measurements near a fresh water reservoir and the formation of the lake breeze. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 68, 31592.	0.8	13
2	Impact of a large artificial lake on regional climate: A typical meteorological year <scp>Meso‐NH</scp> simulation results. International Journal of Climatology, 2022, 42, 1231-1252.	1.5	4
3	Method for solar resource assessment using numerical weather prediction and artificial neural network models based on typical meteorological data: Application to the south of Portugal. Solar Energy, 2022, 236, 225-238.	2.9	16
4	Procedures for solar radiation data gathering and processing and their application to DNI assessment in southern Portugal. Renewable Energy, 2021, 163, 2208-2219.	4.3	7
5	Improved ECMWF forecasts of direct normal irradiance: A tool for better operational strategies in concentrating solar power plants. Renewable Energy, 2021, 163, 755-771.	4.3	8
6	Cupressaceae Pollen in the City of Évora, South of Portugal: Disruption of the Pollen during Air Transport Facilitates Allergen Exposure. Forests, 2021, 12, 64.	0.9	14
7	Lake and Land Breezes at a Mediterranean Artificial Lake: Observations in Alqueva Reservoir, Portugal. Atmosphere, 2021, 12, 535.	1.0	6
8	Effect of thickness on the thermo-hydraulic performance of porous volumetric solar receivers with different internal geometries. Journal of Physics: Conference Series, 2021, 2116, 012116.	0.3	1
9	Solar Irradiation Data Processing using estimator MatriceS (SIMS) validated for Portugal (southern) Tj ETQq1 1 0.784314 rgBT /Overl	4.3	5
10	Predicted direct solar radiation (ECMWF) for optimized operational strategies of linear focus parabolic-trough systems. Renewable Energy, 2020, 151, 378-391.	4.3	6
11	Combined experimental and numerical determination of the asymmetry factor of scattering phase functions in porous volumetric solar receivers. Solar Energy Materials and Solar Cells, 2020, 206, 110327.	3.0	23
12	Assessment of Direct Normal Irradiance Forecasts Based on IFS/ECMWF Data and Observations in the South of Portugal. Forecasting, 2020, 2, 130-150.	1.6	5
13	Temporal and Spatial Variations of Secchi Depth and Diffuse Attenuation Coefficient from Sentinel-2 MSI over a Large Reservoir. Remote Sensing, 2020, 12, 768.	1.8	16
14	Benthic diatom community dynamics in Mediterranean intermittent streams: Effects of water availability and their potential as indicators of dry-phase ecological status. Science of the Total Environment, 2020, 719, 137462.	3.9	16
15	Parametric analysis and optimisation of porous volumetric solar receivers made of open-cell SiC ceramic foam. Energy, 2020, 200, 117476.	4.5	39
16	Development of a clear-sky model to determine circumsolar irradiance using widely available solar radiation data. Solar Energy, 2020, 205, 88-101.	2.9	6
17	Numerical study of the seasonal thermal and gas regimes of the largest artificial reservoir in western Europe using the LAKE 2.0 model. Geoscientific Model Development, 2020, 13, 3475-3488.	1.3	10
18	Composite SVR Based Modelling of an Industrial Furnace. Communications in Computer and Information Science, 2020, , 158-170.	0.4	0

#	Article	IF	Citations
19	Three-dimensional CFD modelling and thermal performance analysis of porous volumetric receivers coupled to solar concentration systems. Applied Energy, 2019, 252, 113433.	5.1	44
20	Predictive value of short-term forecasts of DNI for solar energy systems operation. AIP Conference Proceedings, 2019, , .	0.3	2
21	Circumsolar irradiance modelling using libRadtran and AERONET data. AIP Conference Proceedings, 2019, , .	0.3	2
22	Vertical distribution of benthic diatoms in a large reservoir (Alqueva, Southern Portugal) during thermal stratification. Science of the Total Environment, 2019, 659, 1242-1255.	3.9	8
23	Short-Term Forecasts of DNI from an Integrated Forecasting System (ECMWF) for Optimized Operational Strategies of a Central Receiver System. Energies, 2019, 12, 1368.	1.6	19
24	Development of an ANN based corrective algorithm of the operational ECMWF global horizontal irradiation forecasts. Solar Energy, 2019, 185, 387-405.	2.9	40
25	Prediction of diffuse horizontal irradiance using a new climate zone model. Renewable and Sustainable Energy Reviews, 2019, 110, 28-42.	8.2	28
26	Prediction of Solar Resource and Photovoltaic Energy Production through the Generation of a Typical Meteorological Year and Meso-NH Simulations: Application to the South of Portugal. , 2019, , .		3
27	Three-dimensional modelling and analysis of solar radiation absorption in porous volumetric receivers. Applied Energy, 2018, 215, 602-614.	5.1	46
28	Solar resource assessment through long-term statistical analysis and typical data generation with different time resolutions using GHI measurements. Renewable Energy, 2018, 127, 398-411.	4.3	29
29	Breeze effects at a large artificial lake: summer case study. Hydrology and Earth System Sciences, 2018, 22, 5191-5210.	1.9	15
30	Progresses in DNI measurements in Southern Portugal. AIP Conference Proceedings, 2018, , .	0.3	5
31	Short-term forecasts of GHI and DNI for solar energy systems operation: assessment of the ECMWF integrated forecasting system in southern Portugal. Solar Energy, 2018, 170, 14-30.	2.9	65
32	High-Frequency Response of the Atmospheric Electric Potential Gradient Under Strong and Dry Boundary-Layer Convection. Boundary-Layer Meteorology, 2018, 166, 69-81.	1.2	7
33	An Iberian climatology of solar radiation obtained from WRF regional climate simulations for 1950â€"2010 period. Atmospheric Research, 2017, 198, 151-162.	1.8	11
34	Modelling of a Stirling engine with parabolic dish for thermal to electric conversion of solar energy. Energy Conversion and Management, 2017, 132, 119-135.	4.4	83
35	DNI measurements in the South of Portugal: Long term results through direct comparison with global and diffuse radiation measurements and existing time series. AIP Conference Proceedings, 2016, , .	0.3	4
36	Variability and trends of downward surface global solar radiation over the Iberian Peninsula based on <scp>ERA</scp>â€40 reanalysis. International Journal of Climatology, 2016, 36, 3917-3933.	1.5	14

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37	Optimization of forced convection heat sinks with pumping power requirements. International Journal of Heat and Mass Transfer, 2011, 54, 1441-1447.	2.5	37
38	Optimization of fluid flow and internal geometric structure of volumes cooled by forced convection in an array of parallel tubes. International Journal of Heat and Mass Transfer, 2011, 54, 4288-4299.	2.5	9
39	The SAFE-PORT project: An approach to port surveillance and protection. , 2010, , .		1
40	Performance analysis of an endoreversible heat pump system for optimal air-ground or water environmental exergy potential utilization. International Journal of Energy Research, 2009, 33, 205-210.	2.2	0
41	Optimization of Geometry and Performance of Cooling Bundles of Parallel Tubes With Pumping Fluid Requirements. , 2007, , .		0
42	Utilisation of air-groundwater exergy potential for improvement of the performance of heat pump systems. International Journal of Exergy, 2006, 3, 1.	0.2	7
43	Use of Sentinel 2 â€" MSI for water quality monitoring at Alqueva reservoir, Portugal. Proceedings of the International Association of Hydrological Sciences, 0, 380, 73-79.	1.0	19