

Paulo Canhoto

List of Publications by Year in descending order

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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	Modelling of a Stirling engine with parabolic dish for thermal to electric conversion of solar energy. <i>Energy Conversion and Management</i> , 2017, 132, 119-135.	4.4	83
2	Short-term forecasts of GHI and DNI for solar energy systems operation: assessment of the ECMWF integrated forecasting system in southern Portugal. <i>Solar Energy</i> , 2018, 170, 14-30.	2.9	65
3	Three-dimensional modelling and analysis of solar radiation absorption in porous volumetric receivers. <i>Applied Energy</i> , 2018, 215, 602-614.	5.1	46
4	Three-dimensional CFD modelling and thermal performance analysis of porous volumetric receivers coupled to solar concentration systems. <i>Applied Energy</i> , 2019, 252, 113433.	5.1	44
5	Development of an ANN based corrective algorithm of the operational ECMWF global horizontal irradiation forecasts. <i>Solar Energy</i> , 2019, 185, 387-405.	2.9	40
6	Parametric analysis and optimisation of porous volumetric solar receivers made of open-cell SiC ceramic foam. <i>Energy</i> , 2020, 200, 117476.	4.5	39
7	Optimization of forced convection heat sinks with pumping power requirements. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 1441-1447.	2.5	37
8	Solar resource assessment through long-term statistical analysis and typical data generation with different time resolutions using GHI measurements. <i>Renewable Energy</i> , 2018, 127, 398-411.	4.3	29
9	Prediction of diffuse horizontal irradiance using a new climate zone model. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 110, 28-42.	8.2	28
10	Combined experimental and numerical determination of the asymmetry factor of scattering phase functions in porous volumetric solar receivers. <i>Solar Energy Materials and Solar Cells</i> , 2020, 206, 110327.	3.0	23
11	Short-Term Forecasts of DNI from an Integrated Forecasting System (ECMWF) for Optimized Operational Strategies of a Central Receiver System. <i>Energies</i> , 2019, 12, 1368.	1.6	19
12	Use of Sentinel 2 "MSI for water quality monitoring at Alqueva reservoir, Portugal. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 380, 73-79.	1.0	19
13	Temporal and Spatial Variations of Secchi Depth and Diffuse Attenuation Coefficient from Sentinel-2 MSI over a Large Reservoir. <i>Remote Sensing</i> , 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. <i>Science of the Total Environment</i> , 2020, 719, 137462.	3.9	16
15	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. <i>Solar Energy</i> , 2022, 236, 225-238.	2.9	16
16	Breeze effects at a large artificial lake: summer case study. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5191-5210.	1.9	15
17	Variability and trends of downward surface global solar radiation over the Iberian Peninsula based on ERA40 reanalysis. <i>International Journal of Climatology</i> , 2016, 36, 3917-3933.	1.5	14
18	Cupressaceae Pollen in the City of Évora, South of Portugal: Disruption of the Pollen during Air Transport Facilitates Allergen Exposure. <i>Forests</i> , 2021, 12, 64.	0.9	14

#	ARTICLE	IF	CITATIONS
19	Atmospheric electrical field measurements near a fresh water reservoir and the formation of the lake breeze. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 68, 31592.	0.8	13
20	An Iberian climatology of solar radiation obtained from WRF regional climate simulations for 1950–2010 period. <i>Atmospheric Research</i> , 2017, 198, 151-162.	1.8	11
21	Numerical study of the seasonal thermal and gas regimes of the largest artificial reservoir in western Europe using the LAKE 2.0 model. <i>Geoscientific Model Development</i> , 2020, 13, 3475-3488.	1.3	10
22	Optimization of fluid flow and internal geometric structure of volumes cooled by forced convection in an array of parallel tubes. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 4288-4299.	2.5	9
23	Vertical distribution of benthic diatoms in a large reservoir (Alqueva, Southern Portugal) during thermal stratification. <i>Science of the Total Environment</i> , 2019, 659, 1242-1255.	3.9	8
24	Improved ECMWF forecasts of direct normal irradiance: A tool for better operational strategies in concentrating solar power plants. <i>Renewable Energy</i> , 2021, 163, 755-771.	4.3	8
25	Utilisation of air-groundwater exergy potential for improvement of the performance of heat pump systems. <i>International Journal of Exergy</i> , 2006, 3, 1.	0.2	7
26	High-Frequency Response of the Atmospheric Electric Potential Gradient Under Strong and Dry Boundary-Layer Convection. <i>Boundary-Layer Meteorology</i> , 2018, 166, 69-81.	1.2	7
27	Procedures for solar radiation data gathering and processing and their application to DNI assessment in southern Portugal. <i>Renewable Energy</i> , 2021, 163, 2208-2219.	4.3	7
28	Predicted direct solar radiation (ECMWF) for optimized operational strategies of linear focus parabolic-trough systems. <i>Renewable Energy</i> , 2020, 151, 378-391.	4.3	6
29	Lake and Land Breezes at a Mediterranean Artificial Lake: Observations in Alqueva Reservoir, Portugal. <i>Atmosphere</i> , 2021, 12, 535.	1.0	6
30	Development of a clear-sky model to determine circumsolar irradiance using widely available solar radiation data. <i>Solar Energy</i> , 2020, 205, 88-101.	2.9	6
31	Progresses in DNI measurements in Southern Portugal. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	5
32	Solar Irradiation Data Processing using estimator MatriceS (SIMS) validated for Portugal (southern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.3	5
33	Assessment of Direct Normal Irradiance Forecasts Based on IFS/ECMWF Data and Observations in the South of Portugal. <i>Forecasting</i> , 2020, 2, 130-150.	1.6	5
34	DNI measurements in the South of Portugal: Long term results through direct comparison with global and diffuse radiation measurements and existing time series. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	4
35	Impact of a large artificial lake on regional climate: A typical meteorological year <sc>Meso-NH</sc> simulation results. <i>International Journal of Climatology</i> , 2022, 42, 1231-1252.	1.5	4
36	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

#	ARTICLE	IF	CITATIONS
37	Predictive value of short-term forecasts of DNI for solar energy systems operation. AIP Conference Proceedings, 2019, , .	0.3	2
38	Circumsolar irradiance modelling using libRadtran and AERONET data. AIP Conference Proceedings, 2019, , .	0.3	2
39	The SAFE-PORT project: An approach to port surveillance and protection. , 2010, , .		1
40	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
41	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
42	Optimization of Geometry and Performance of Cooling Bundles of Parallel Tubes With Pumping Fluid Requirements. , 2007, , .		0
43	Composite SVR Based Modelling of an Industrial Furnace. Communications in Computer and Information Science, 2020, , 158-170.	0.4	0