

Thomas A Huld

List of Publications by Year in descending order

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43
papers

3,478
citations

201385

27
h-index

377514

34
g-index

43
all docs

43
docs citations

43
times ranked

3398
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential of solar electricity generation in the European Union member states and candidate countries. <i>Solar Energy</i> , 2007, 81, 1295-1305.	2.9	566
2	A new solar radiation database for estimating PV performance in Europe and Africa. <i>Solar Energy</i> , 2012, 86, 1803-1815.	2.9	521
3	Mapping the performance of PV modules, effects of module type and data averaging. <i>Solar Energy</i> , 2010, 84, 324-338.	2.9	247
4	Evaluation of global horizontal irradiance estimates from ERA5 and COSMO-REA6 reanalyses using ground and satellite-based data. <i>Solar Energy</i> , 2018, 164, 339-354.	2.9	245
5	PV-GIS: a web-based solar radiation database for the calculation of PV potential in Europe. <i>International Journal of Sustainable Energy</i> , 2005, 24, 55-67.	1.3	227
6	A methodology for optimization of the complementarity between small-hydropower plants and solar PV systems. <i>Renewable Energy</i> , 2016, 87, 1023-1030.	4.3	167
7	Estimating PV Module Performance over Large Geographical Regions: The Role of Irradiance, Air Temperature, Wind Speed and Solar Spectrum. <i>Energies</i> , 2015, 8, 5159-5181.	1.6	159
8	A power-rating model for crystalline silicon PV modules. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3359-3369.	3.0	156
9	A New Database of Global and Direct Solar Radiation Using the Eastern Meteosat Satellite, Models and Validation. <i>Remote Sensing</i> , 2014, 6, 8165-8189.	1.8	121
10	Extensive validation of CM SAF surface radiation products over Europe. <i>Remote Sensing of Environment</i> , 2017, 199, 171-186.	4.6	80
11	Local Complementarity of Wind and Solar Energy Resources over Europe: An Assessment Study from a Meteorological Perspective. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 217-234.	0.6	75
12	Geographical variation of the conversion efficiency of crystalline silicon photovoltaic modules in Europe. <i>Progress in Photovoltaics: Research and Applications</i> , 2008, 16, 595-607.	4.4	66
13	Geographic Aspects of Photovoltaics in Europe: Contribution of the PVGIS Website. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2008, 1, 34-41.	2.3	64
14	The near future availability of photovoltaic energy in Europe and Africa in climate-aerosol modeling experiments. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 38, 706-716.	8.2	62
15	Tradable certificates for renewable electricity and energy savings. <i>Energy Policy</i> , 2006, 34, 212-222.	4.2	61
16	Quality control of global solar radiation data with satellite-based products. <i>Solar Energy</i> , 2017, 158, 49-62.	2.9	60
17	Comparison of potential solar electricity output from fixed-inclined and two-axis tracking photovoltaic modules in Europe. <i>Progress in Photovoltaics: Research and Applications</i> , 2008, 16, 47-59.	4.4	57
18	Impact of different levels of geographical disaggregation of wind and PV electricity generation in large energy system models: A case study for Austria. <i>Renewable Energy</i> , 2017, 105, 183-198.	4.3	55

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19	Estimating average daytime and daily temperature profiles within Europe. <i>Environmental Modelling and Software</i> , 2006, 21, 1650-1661.	1.9	54
20	Analysis of one-axis tracking strategies for PV systems in Europe. <i>Progress in Photovoltaics: Research and Applications</i> , 2010, 18, 183-194.	4.4	54
21	PVMAPS: Software tools and data for the estimation of solar radiation and photovoltaic module performance over large geographical areas. <i>Solar Energy</i> , 2017, 142, 171-181.	2.9	54
22	Application of Satellite-Based Spectrally-Resolved Solar Radiation Data to PV Performance Studies. <i>Energies</i> , 2015, 8, 3455-3488.	1.6	43
23	Assembling Typical Meteorological Year Data Sets for Building Energy Performance Using Reanalysis and Satellite-Based Data. <i>Atmosphere</i> , 2018, 9, 53.	1.0	38
24	Reducing CO ₂ emissions of conventional fuel cars by vehicle photovoltaic roofs. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 59, 313-324.	3.2	37
25	Geospatial Analysis of Photovoltaic Mini-Grid System Performance. <i>Energies</i> , 2017, 10, 218.	1.6	35
26	Quantifying the amplified bias of PV system simulations due to uncertainties in solar radiation estimates. <i>Solar Energy</i> , 2018, 176, 663-677.	2.9	35
27	Data sets for energy rating of photovoltaic modules. <i>Solar Energy</i> , 2013, 93, 267-279.	2.9	34
28	Photovoltaic energy rating data sets for Europe. <i>Solar Energy</i> , 2016, 133, 349-362.	2.9	18
29	Photovoltaics in Europe after the Paris Agreement. , 2018, , .		16
30	Spatial Downscaling of 2-Meter Air Temperature Using Operational Forecast Data. <i>Energies</i> , 2015, 8, 2381-2411.	1.6	14
31	Sources of uncertainty in annual global horizontal irradiance data. <i>Solar Energy</i> , 2018, 170, 873-884.	2.9	14
32	Energy-based metric for analysis of organic PV devices in comparison with conventional industrial technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 93, 76-89.	8.2	13
33	Accuracy, cost and sensitivity analysis of PV energy rating. <i>Solar Energy</i> , 2020, 203, 91-100.	2.9	11
34	Solar Resource Modelling for Energy Applications. <i>Lecture Notes in Geoinformation and Cartography</i> , 2007, , 259-273.	0.5	7
35	Toward a model for a-Si modules performance behavior under real outdoor operating conditions. <i>Solar Energy</i> , 2015, 116, 388-398.	2.9	3
36	Residential Photovoltaic Electricity Generation in the European Union 2017-Opportunities and Challenges. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
37	Challenges to Realise 1% Electricity from Photovoltaic Solar Systems in the European Union by 2020. , 2006, , .		2
38	The impact of location on competitiveness of wind and PV electricity generation - Case study for Austria. , 2013, , .		2
39	Analysis of the performance of the Large Amorphous Silicon PV Façade in Ispra after 11 years of operation. , 2006, , .		1
40	Modeling of Flow Around a Circular Cylinder in Sub-Critical Flow Regime With the Use of Dynamic Grid Adaptation. , 2002, , .		1
41	Surface solar irradiance maps from seviri MSG data. , 2010, , .		0
42	Sun -Shape and -Irradiance Profile Measurements at ESTI. , 2011, , .		0
43	Solution Adaptive Grids Applied to Low Reynolds Number Flow. , 2002, , .		0