

Elke Lorenz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9996532/publications.pdf>

Version: 2024-02-01

17
papers

1,529
citations

759233

12
h-index

888059

17
g-index

18
all docs

18
docs citations

18
times ranked

1453
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar energy assessment using remote sensing technologies. Remote Sensing of Environment, 2003, 86, 423-432.	11.0	363
2	Comparison of numerical weather prediction solar irradiance forecasts in the US, Canada and Europe. Solar Energy, 2013, 94, 305-326.	6.1	282
3	Regional PV power prediction for improved grid integration. Progress in Photovoltaics: Research and Applications, 2011, 19, 757-771.	8.1	202
4	Comparing support vector regression for PV power forecasting to a physical modeling approach using measurement, numerical weather prediction, and cloud motion data. Solar Energy, 2016, 135, 197-208.	6.1	171
5	Verification of deterministic solar forecasts. Solar Energy, 2020, 210, 20-37.	6.1	142
6	Forecast for surface solar irradiance at the Brazilian Northeastern region using NWP model and artificial neural networks. Renewable Energy, 2016, 87, 807-818.	8.9	106
7	Local and regional photovoltaic power prediction for large scale grid integration: Assessment of a new algorithm for snow detection. Progress in Photovoltaics: Research and Applications, 2012, 20, 760-769.	8.1	65
8	Evaluating the spatio-temporal performance of sky-imager-based solar irradiance analysis and forecasts. Atmospheric Chemistry and Physics, 2016, 16, 3399-3412.	4.9	57
9	Comparison of global horizontal irradiance forecasts based on numerical weather prediction models with different spatio-temporal resolutions. Progress in Photovoltaics: Research and Applications, 2016, 24, 1626-1640.	8.1	34
10	The impact of different PV module configurations on storage and additional balancing needs for a fully renewable European power system. Renewable Energy, 2017, 113, 176-189.	8.9	31
11	Solar spectral irradiance derived from satellite data: A tool to improve thin film PV performance estimations?. Solar Energy, 2013, 98, 100-110.	6.1	22
12	Short-Term Forecasting of Surface Solar Irradiance Based on Meteosat-SEVIRI Data Using a Nighttime Cloud Index. Remote Sensing, 2015, 7, 9070-9090.	4.0	20
13	Modeling the maximum power output of a distributed PV fleet. Progress in Photovoltaics: Research and Applications, 2015, 23, 1164-1181.	8.1	12
14	Solar and PV forecasting for large PV power plants using numerical weather models, satellite data and ground measurements. , 2019, , .		8
15	High resolution measurement network of global horizontal and tilted solar irradiance in southern Germany with a new quality control scheme. Solar Energy, 2022, 231, 593-606.	6.1	8
16	Impact of Irradiance Data on the Energy Yield Modeling of Dual-Junction Solar Module Stacks for One-Sun Applications. IEEE Journal of Photovoltaics, 2021, 11, 692-698.	2.5	3
17	Spectrally resolved DNI measurements: Results of a field comparison of spectroradiometers, component cells and the SOLIS satellite model. AIP Conference Proceedings, 2012, , .	0.4	2