

Elke Lorenz

List of Publications by Year in descending order

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