Dennis van der Meer

List of Publications by Year
in descending order

48 papers	2,730 citations	201385 27 h-index	253896 43 g-index
50 all docs	50 docs citations	50 times ranked	1632 citing authors

#	Article	IF	Citations
1	History and trends in solar irradiance and PV power forecasting: A preliminary assessment and review using text mining. Solar Energy, 2018, 168, 60-101.	2.9	338
2	Review on probabilistic forecasting of photovoltaic power production and electricity consumption. Renewable and Sustainable Energy Reviews, 2018, 81, 1484-1512.	8.2	285
3	Automatic hourly solar forecasting using machine learning models. Renewable and Sustainable Energy Reviews, 2019, 105, 487-498.	8.2	167
4	Energy Management System With PV Power Forecast to Optimally Charge EVs at the Workplace. IEEE Transactions on Industrial Informatics, 2018, 14, 311-320.	7.2	159
5	Smart charging of electric vehicles considering photovoltaic power production and electricity consumption: A review. ETransportation, 2020, 4, 100056.	6.8	148
6	Verification of deterministic solar forecasts. Solar Energy, 2020, 210, 20-37.	2.9	142
7	Very short term irradiance forecasting using the lasso. Solar Energy, 2015, 114, 314-326.	2.9	105
8	A guideline to solar forecasting research practice: Reproducible, operational, probabilistic or physically-based, ensemble, and skill (ROPES). Journal of Renewable and Sustainable Energy, 2019, 11, .	0.8	99
9	Residential probabilistic load forecasting: A method using Gaussian process designed for electric load data. Applied Energy, 2018, 218, 159-172.	5.1	87
10	Operational solar forecasting for the real-time market. International Journal of Forecasting, 2019, 35, 1499-1519.	3.9	87
11	Optimal Orientation and Tilt Angle for Maximizing in-Plane Solar Irradiation for PV Applications in Singapore. IEEE Journal of Photovoltaics, 2014, 4, 647-653.	1.5	82
12	A review of solar forecasting, its dependence on atmospheric sciences and implications for grid integration: Towards carbon neutrality. Renewable and Sustainable Energy Reviews, 2022, 161, 112348.	8.2	80
13	Choice of clear-sky model in solar forecasting. Journal of Renewable and Sustainable Energy, 2020, 12, .	0.8	78
14	Solar irradiance forecasting using spatio-temporal empirical kriging and vector autoregressive models with parameter shrinkage. Solar Energy, 2014, 103, 550-562.	2.9	72
15	SolarData: An R package for easy access of publicly available solar datasets. Solar Energy, 2018, 171, A3-A12.	2.9	65
16	Probabilistic forecasting of solar power, electricity consumption and net load: Investigating the effect of seasons, aggregation and penetration on prediction intervals. Solar Energy, 2018, 171, 397-413.	2.9	57
17	Post-processing in solar forecasting: Ten overarching thinking tools. Renewable and Sustainable Energy Reviews, 2021, 140, 110735.	8.2	57
18	Very short term load forecasting of residential electricity consumption using the Markov-chain mixture distribution (MCM) model. Applied Energy, 2021, 282, 116180.	5.1	50

#	Article	IF	Citations
19	A universal benchmarking method for probabilistic solar irradiance forecasting. Solar Energy, 2019, 184, 410-416.	2.9	49
20	A historical weather forecast dataset from the European Centre for Medium-Range Weather Forecasts (ECMWF) for energy forecasting. Solar Energy, 2022, 232, 263-274.	2.9	39
21	Post-processing of NWP forecasts using ground or satellite-derived data through kernel conditional density estimation. Journal of Renewable and Sustainable Energy, 2019, 11, .	0.8	38
22	Probabilistic forecasting of high-resolution clear-sky index time-series using a Markov-chain mixture distribution model. Solar Energy, 2019, 184, 688-695.	2.9	34
23	A Concise Overview on Solar Resource Assessment and Forecasting. Advances in Atmospheric Sciences, 2022, 39, 1239-1251.	1.9	34
24	An ultra-fast way of searching weather analogs for renewable energy forecasting. Solar Energy, 2019, 185, 255-261.	2.9	32
25	Probabilistic solar forecasting benchmarks on a standardized dataset at Folsom, California. Solar Energy, 2020, 206, 628-639.	2.9	32
26	Operational solar forecasting for grid integration: Standards, challenges, and outlook. Solar Energy, 2021, 224, 930-937.	2.9	32
27	Progress in regional PV power forecasting: A sensitivity analysis on the Italian case study. Renewable Energy, 2022, 189, 983-996.	4.3	29
28	OpenSolar: Promoting the openness and accessibility of diverse public solar datasets. Solar Energy, 2019, 188, 1369-1379.	2.9	27
29	Ultra-fast preselection in lasso-type spatio-temporal solar forecasting problems. Solar Energy, 2018, 176, 788-796.	2.9	26
30	Editorial: Submission of Data Article is now open. Solar Energy, 2018, 171, A1-A2.	2.9	24
31	SolarData package update v1.1: R functions for easy access of Baseline Surface Radiation Network (BSRN). Solar Energy, 2019, 188, 970-975.	2.9	24
32	Ultra-fast analog ensemble using kd-tree. Journal of Renewable and Sustainable Energy, 2019, 11, .	0.8	21
33	Producing high-quality solar resource maps by integrating high- and low-accuracy measurements using Gaussian processes. Renewable and Sustainable Energy Reviews, 2019, 113, 109260.	8.2	19
34	An alternative optimal strategy for stochastic model predictive control of a residential battery energy management system with solar photovoltaic. Applied Energy, 2021, 283, 116289.	5.1	19
35	Probabilistic post-processing of gridded atmospheric variables and its application to site adaptation of shortwave solar radiation. Solar Energy, 2021, 225, 427-443.	2.9	15
36	On predictability of solar irradiance. Journal of Renewable and Sustainable Energy, 2021, 13, .	0.8	12

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37	Dirichlet downscaling model for synthetic solar irradiance time series. Journal of Renewable and Sustainable Energy, 2020, 12, 063702.	0.8	11
38	Sub-minute probabilistic solar forecasting for real-time stochastic simulations. Renewable and Sustainable Energy Reviews, 2022, 153, 111736.	8.2	11
39	AC Loss Analysis and Measurement of a Hybrid Transposed Hairpin Winding for EV Traction Machines. IEEE Transactions on Industrial Electronics, 2023, 70, 3525-3536.	5.2	11
40	A benchmark for multivariate probabilistic solar irradiance forecasts. Solar Energy, 2021, 225, 286-296.	2.9	10
41	Clear-sky index space-time trajectories from probabilistic solar forecasts: Comparing promising copulas. Journal of Renewable and Sustainable Energy, 2020, 12, 026102.	0.8	7
42	Comment on â€œVerification of deterministic solar forecastsâ€ Verification of probabilistic solar forecasts. Solar Energy, 2020, 210, 41-43.	2.9	5
43	Probabilistic clear-sky index forecasts using Gaussian process ensembles. , 2018, , .		4
44	Erratum to â€œEnergy Management System With PV Power Forecast to Optimally Charge EVs at the Workplaceâ€[Jan 18 311-320]. IEEE Transactions on Industrial Informatics, 2018, 14, 3298-3298.	7.2	3
45	Generalizing Renewable Energy Forecasting Using Automatic Feature Selection and Combination. , 2022, , .		1
46	Data-Enabled Reactive Power Control of Distributed Energy Resources via a Copula Estimation of Distribution Algorithm. , 2022, , .		1
47	Direct forecast of solar irradiance for EV smart charging scheme to improve PV self-consumption at home. , 2021, , .		0
48	Seamless intra-day and day-ahead multivariate probabilistic forecasts at high temporal resolution. , 2022, , .		0