

Dazhi Yang

List of Publications by Year in descending order

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126
papers

5,463
citations

76326

40
h-index

91884

69
g-index

126
all docs

126
docs citations

126
times ranked

2967
citing authors

#	ARTICLE	IF	CITATIONS
1	History and trends in solar irradiance and PV power forecasting: A preliminary assessment and review using text mining. <i>Solar Energy</i> , 2018, 168, 60-101.	6.1	338
2	Energy Forecasting: A Review and Outlook. <i>IEEE Open Access Journal of Power and Energy</i> , 2020, 7, 376-388.	3.4	268
3	Hourly solar irradiance time series forecasting using cloud cover index. <i>Solar Energy</i> , 2012, 86, 3531-3543.	6.1	193
4	Automatic hourly solar forecasting using machine learning models. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 105, 487-498.	16.4	167
5	Short-term solar irradiance forecasting using exponential smoothing state space model. <i>Energy</i> , 2013, 55, 1104-1113.	8.8	159
6	Solar radiation on inclined surfaces: Corrections and benchmarks. <i>Solar Energy</i> , 2016, 136, 288-302.	6.1	158
7	Verification of deterministic solar forecasts. <i>Solar Energy</i> , 2020, 210, 20-37.	6.1	142
8	Short term solar irradiance forecasting using a mixed wavelet neural network. <i>Renewable Energy</i> , 2016, 90, 481-492.	8.9	137
9	Worldwide validation of CAMS and MERRA-2 reanalysis aerosol optical depth products using 15 years of AERONET observations. <i>Atmospheric Environment</i> , 2020, 225, 117216.	4.1	131
10	Solar irradiance forecasting using spatial-temporal covariance structures and time-forward kriging. <i>Renewable Energy</i> , 2013, 60, 235-245.	8.9	126
11	Worldwide validation of 8 satellite-derived and reanalysis solar radiation products: A preliminary evaluation and overall metrics for hourly data over 27 years. <i>Solar Energy</i> , 2020, 210, 3-19.	6.1	115
12	A novel hybrid approach based on self-organizing maps, support vector regression and particle swarm optimization to forecast solar irradiance. <i>Energy</i> , 2015, 82, 570-577.	8.8	111
13	Forecasting of global horizontal irradiance by exponential smoothing, using decompositions. <i>Energy</i> , 2015, 81, 111-119.	8.8	110
14	Very short term irradiance forecasting using the lasso. <i>Solar Energy</i> , 2015, 114, 314-326.	6.1	105
15	A Linear Identification of Diode Models from Single $I-V$ Characteristics of PV Panels. <i>IEEE Transactions on Industrial Electronics</i> , 2015, 62, 4181-4193.	7.9	103
16	A Siting and Sizing Optimization Approach for PV-Battery-Diesel Hybrid Systems. <i>IEEE Transactions on Industry Applications</i> , 2018, 54, 2637-2645.	4.9	100
17	A guideline to solar forecasting research practice: Reproducible, operational, probabilistic or physically-based, ensemble, and skill (ROPES). <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	2.0	99
18	Operational photovoltaics power forecasting using seasonal time series ensemble. <i>Solar Energy</i> , 2018, 166, 529-541.	6.1	91

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19	Operational solar forecasting for the real-time market. <i>International Journal of Forecasting</i> , 2019, 35, 1499-1519.	6.5	87
20	A multi-objective and robust optimization approach for sizing and placement of PV and batteries in off-grid systems fully operated by diesel generators: An Indonesian case study. <i>Energy</i> , 2018, 160, 410-429.	8.8	85
21	Optimal Orientation and Tilt Angle for Maximizing in-Plane Solar Irradiation for PV Applications in Singapore. <i>IEEE Journal of Photovoltaics</i> , 2014, 4, 647-653.	2.5	82
22	Very short-term irradiance forecasting at unobserved locations using spatio-temporal kriging. <i>Solar Energy</i> , 2015, 122, 1266-1278.	6.1	82
23	A review of solar forecasting, its dependence on atmospheric sciences and implications for grid integration: Towards carbon neutrality. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112348.	16.4	80
24	Choice of clear-sky model in solar forecasting. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, .	2.0	78
25	Satellite image analysis and a hybrid ESSS/ANN model to forecast solar irradiance in the tropics. <i>Energy Conversion and Management</i> , 2014, 79, 66-73.	9.2	76
26	Solar irradiance forecasting using spatio-temporal empirical kriging and vector autoregressive models with parameter shrinkage. <i>Solar Energy</i> , 2014, 103, 550-562.	6.1	72
27	A Survey of Computational Intelligence Techniques for Wind Power Uncertainty Quantification in Smart Grids. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 4582-4599.	11.3	67
28	SolarData: An R package for easy access of publicly available solar datasets. <i>Solar Energy</i> , 2018, 171, A3-A12.	6.1	65
29	Reconciling solar forecasts: Geographical hierarchy. <i>Solar Energy</i> , 2017, 146, 276-286.	6.1	63
30	A linear method to extract diode model parameters of solar panels from a single I-V curve. <i>Renewable Energy</i> , 2015, 76, 135-142.	8.9	60
31	Post-processing in solar forecasting: Ten overarching thinking tools. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 140, 110735.	16.4	57
32	A correct validation of the National Solar Radiation Data Base (NSRDB). <i>Renewable and Sustainable Energy Reviews</i> , 2018, 97, 152-155.	16.4	55
33	Can we gauge forecasts using satellite-derived solar irradiance?. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	2.0	55
34	Making reference solar forecasts with climatology, persistence, and their optimal convex combination. <i>Solar Energy</i> , 2019, 193, 981-985.	6.1	54
35	Reconciling solar forecasts: Temporal hierarchy. <i>Solar Energy</i> , 2017, 158, 332-346.	6.1	52
36	A universal benchmarking method for probabilistic solar irradiance forecasting. <i>Solar Energy</i> , 2019, 184, 410-416.	6.1	49

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37	On the impact of haze on the yield of photovoltaic systems in Singapore. <i>Renewable Energy</i> , 2016, 89, 389-400.	8.9	48
38	On post-processing day-ahead NWP forecasts using Kalman filtering. <i>Solar Energy</i> , 2019, 182, 179-181.	6.1	48
39	Evaluation of transposition and decomposition models for converting global solar irradiance from tilted surface to horizontal in tropical regions. <i>Solar Energy</i> , 2013, 97, 369-387.	6.1	43
40	Standard of reference in operational day-ahead deterministic solar forecasting. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	2.0	43
41	Satellite-augmented diffuse solar radiation separation models. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	2.0	42
42	Reconciling solar forecasts: Sequential reconciliation. <i>Solar Energy</i> , 2019, 179, 391-397.	6.1	40
43	A historical weather forecast dataset from the European Centre for Medium-Range Weather Forecasts (ECMWF) for energy forecasting. <i>Solar Energy</i> , 2022, 232, 263-274.	6.1	39
44	Bidirectional irradiance transposition based on the Perez model. <i>Solar Energy</i> , 2014, 110, 768-780.	6.1	38
45	Post-processing of NWP forecasts using ground or satellite-derived data through kernel conditional density estimation. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	2.0	38
46	The Estimation of Clear Sky Global Horizontal Irradiance at the Equator. <i>Energy Procedia</i> , 2012, 25, 141-148.	1.8	37
47	Solar forecasting with hourly updated numerical weather prediction. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111768.	16.4	35
48	A Concise Overview on Solar Resource Assessment and Forecasting. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 1239-1251.	4.3	34
49	Can we justify producing univariate machine-learning forecasts with satellite-derived solar irradiance?. <i>Applied Energy</i> , 2020, 259, 114122.	10.1	33
50	An ultra-fast way of searching weather analogs for renewable energy forecasting. <i>Solar Energy</i> , 2019, 185, 255-261.	6.1	32
51	Probabilistic solar forecasting benchmarks on a standardized dataset at Folsom, California. <i>Solar Energy</i> , 2020, 206, 628-639.	6.1	32
52	Operational solar forecasting for grid integration: Standards, challenges, and outlook. <i>Solar Energy</i> , 2021, 224, 930-937.	6.1	32
53	Day-Ahead Solar Irradiance Forecasting in a Tropical Environment. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2015, 137, .	1.8	31
54	Ensemble model output statistics for the separation of direct and diffuse components from 1-min global irradiance. <i>Solar Energy</i> , 2020, 208, 591-603.	6.1	31

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55	Estimating 1-min beam and diffuse irradiance from the global irradiance: A review and an extensive worldwide comparison of latest separation models at 126 stations. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 159, 112195.	16.4	31
56	Analyzing big time series data in solar engineering using features and PCA. <i>Solar Energy</i> , 2017, 153, 317-328.	6.1	30
57	The Impact of Haze on Performance Ratio and Short-Circuit Current of PV Systems in Singapore. <i>IEEE Journal of Photovoltaics</i> , 2014, 4, 1585-1592.	2.5	29
58	On adding and removing sensors in a solar irradiance monitoring network for areal forecasting and PV system performance evaluation. <i>Solar Energy</i> , 2017, 155, 1417-1430.	6.1	27
59	OpenSolar: Promoting the openness and accessibility of diverse public solar datasets. <i>Solar Energy</i> , 2019, 188, 1369-1379.	6.1	27
60	Ultra-fast preselection in lasso-type spatio-temporal solar forecasting problems. <i>Solar Energy</i> , 2018, 176, 788-796.	6.1	26
61	Validation of the 5-min irradiance from the National Solar Radiation Database (NSRDB). <i>Journal of Renewable and Sustainable Energy</i> , 2021, 13, .	2.0	26
62	Effects of foam structure on thermochemical characteristics of porous-filled solar reactor. <i>Energy</i> , 2022, 239, 122219.	8.8	26
63	Kriging for NSRDB PSM version 3 satellite-derived solar irradiance. <i>Solar Energy</i> , 2018, 171, 876-883.	6.1	24
64	Editorial: Submission of Data Article is now open. <i>Solar Energy</i> , 2018, 171, A1-A2.	6.1	24
65	SolarData package update v1.1: R functions for easy access of Baseline Surface Radiation Network (BSRN). <i>Solar Energy</i> , 2019, 188, 970-975.	6.1	24
66	Irradiance-to-power conversion based on physical model chain: An application on the optimal configuration of multi-energy microgrid in cold climate. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112356.	16.4	24
67	Reconciling solar forecasts: Probabilistic forecast reconciliation in a nonparametric framework. <i>Solar Energy</i> , 2020, 210, 49-58.	6.1	23
68	Ensemble model output statistics as a probabilistic site-adaptation tool for satellite-derived and reanalysis solar irradiance. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, .	2.0	23
69	Reconciling solar forecasts: Probabilistic forecasting with homoscedastic Gaussian errors on a geographical hierarchy. <i>Solar Energy</i> , 2020, 210, 59-67.	6.1	22
70	Spatial Load Forecasting With Communication Failure Using Time-Forward Kriging. <i>IEEE Transactions on Power Systems</i> , 2014, 29, 2875-2882.	6.5	21
71	Vessel movement analysis and pattern discovery using density-based clustering approach. , 2016, , .		21
72	Ultra-fast analog ensemble using kd-tree. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	2.0	21

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73	Estimation and Applications of Clear Sky Global Horizontal Irradiance at the Equator. Journal of Solar Energy Engineering, Transactions of the ASME, 2014, 136, .	1.8	20
74	Solar irradiance monitoring network design using the variance quadtree algorithm. Renewables: Wind, Water, and Solar, 2015, 2, .	3.7	20
75	Ensemble solar forecasting using data-driven models with probabilistic post-processing through GAMLSS. Solar Energy, 2020, 208, 612-622.	6.1	20
76	Verifying operational intra-day solar forecasts from ECMWF and NOAA. Solar Energy, 2022, 236, 743-755.	6.1	20
77	Spatial prediction using kriging ensemble. Solar Energy, 2018, 171, 977-982.	6.1	19
78	Producing high-quality solar resource maps by integrating high- and low-accuracy measurements using Gaussian processes. Renewable and Sustainable Energy Reviews, 2019, 113, 109260.	16.4	19
79	Probabilistic solar irradiance transposition models. Renewable and Sustainable Energy Reviews, 2020, 125, 109814.	16.4	19
80	Temporal-resolution cascade model for separation of 1-min beam and diffuse irradiance. Journal of Renewable and Sustainable Energy, 2021, 13, .	2.0	17
81	Calibration of deterministic NWP forecasts and its impact on verification. International Journal of Forecasting, 2023, 39, 981-991.	6.5	17
82	Correlogram, predictability error growth, and bounds of mean square error of solar irradiance forecasts. Renewable and Sustainable Energy Reviews, 2022, 167, 112736.	16.4	17
83	High-Precision XY Stage Motion Control of Industrial Microscope. IEEE Transactions on Industrial Electronics, 2019, 66, 1984-1992.	7.9	15
84	Probabilistic post-processing of gridded atmospheric variables and its application to site adaptation of shortwave solar radiation. Solar Energy, 2021, 225, 427-443.	6.1	15
85	Block Matching Algorithms: Their Applications and Limitations in Solar Irradiance Forecasting. Energy Procedia, 2013, 33, 335-342.	1.8	13
86	Ensemble solar forecasting and post-processing using dropout neural network and information from neighboring satellite pixels. Renewable and Sustainable Energy Reviews, 2022, 155, 111909.	16.4	13
87	Big data analytics for empowering milk yield prediction in dairy supply chains. , 2015, , .		12
88	On predictability of solar irradiance. Journal of Renewable and Sustainable Energy, 2021, 13, .	2.0	12
89	Placement and sizing optimization for PV-battery-diesel hybrid systems. , 2016, , .		11
90	Dirichlet downscaling model for synthetic solar irradiance time series. Journal of Renewable and Sustainable Energy, 2020, 12, 063702.	2.0	11

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91	Sub-minute probabilistic solar forecasting for real-time stochastic simulations. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111736.	16.4	11
92	Towards adaptive weight vectors for multiobjective evolutionary algorithm based on decomposition. , 2016, , .		10
93	Quality Control for Solar Irradiance Data. , 2018, , .		10
94	Comment: Operational aspects of solar forecasting. <i>Solar Energy</i> , 2020, 210, 38-40.	6.1	10
95	Probabilistic merging and verification of monthly gridded aerosol products. <i>Atmospheric Environment</i> , 2021, 247, 118146.	4.1	10
96	Quantifying the spatial scale mismatch between satellite-derived solar irradiance and in situ measurements: A case study using CERES synoptic surface shortwave flux and the Oklahoma Mesonet. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, 056104.	2.0	10
97	Influences of atmospheric reanalysis on the accuracy of clear-sky irradiance estimates: Comparing MERRA-2 and CAMS. <i>Atmospheric Environment</i> , 2022, 277, 119080.	4.1	10
98	Expanding Existing Solar Irradiance Monitoring Network Using Entropy. <i>IEEE Transactions on Sustainable Energy</i> , 2015, 6, 1208-1215.	8.8	8
99	Ensemble model output statistics as a probabilistic site-adaptation tool for solar irradiance: A revisit. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, .	2.0	8
100	Surrogate model of liquid cooling system for lithium-ion battery using extreme gradient boosting. <i>Applied Thermal Engineering</i> , 2022, 213, 118675.	6.0	8
101	Effects of spatial scale of atmospheric reanalysis data on clear-sky surface radiation modeling in tropical climates: A case study for Singapore. <i>Solar Energy</i> , 2022, 241, 525-537.	6.1	8
102	Impact of Information Sharing and Forecast Combination on Fast-Moving-Consumer-Goods Demand Forecast Accuracy. <i>Information (Switzerland)</i> , 2019, 10, 260.	2.9	7
103	Clear-sky index space-time trajectories from probabilistic solar forecasts: Comparing promising copulas. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, 026102.	2.0	7
104	Forecast UPC-level FMCG demand, Part I: Exploratory analysis and visualization. , 2015, , .		6
105	Benchmarks for solar radiation time series forecasting. <i>Renewable Energy</i> , 2022, 191, 747-762.	8.9	6
106	Forecast UPC-level FMCG demand, Part II: Hierarchical reconciliation. , 2015, , .		5
107	Spatial data dimension reduction using quadtree: A case study on satellite-derived solar radiation. , 2016, , .		5
108	A Stochastic Power Flow Study to Investigate the Effects of Renewable Energy Integration. , 2018, , .		5

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109	Simulation study of parameter estimation and measurement planning on photovoltaics degradation. International Journal of Energy and Statistics, 2015, 03, 1550013.	0.5	4
110	PV parameter identification using reduced I-V data. , 2017, , .		4
111	Performing literature review using text mining, Part I: Retrieving technology infrastructure using Google Scholar and APIs. , 2017, , .		3
112	Solar Forecast Reconciliation and Effects of Improved Base Forecasts. , 2018, , .		3
113	Performing literature review using text mining, Part III: Summarizing articles using TextRank. , 2018, , .		3
114	Using Combinational Methods for Forecast Improvement in PV Power Plants. , 2018, , .		3
115	Forecast UPC-level FMCG demand, Part III: Grouped reconciliation. , 2016, , .		2
116	Low-cost precision motion control for industrial digital microscopy. , 2017, , .		2
117	Performing literature review using text mining, Part II: Expanding domain knowledge with abbreviation identification. , 2017, , .		2
118	Preface of progress in solar energy special issue: Grid integration. Solar Energy, 2020, 210, 1-2.	6.1	2
119	Solar Project Financing, Bankability, and Resource Assessment. Green Energy and Technology, 2020, , 179-211.	0.6	2
120	Graph-based analysis of resource dependencies in project networks. , 2015, , .		1
121	Deep learning solution for intra-day solar irradiance fore casting in tropical high variability regions. , 2018, , .		1
122	Non-contact measurement of POA irradiance and cell temperature for PV systems. , 2015, , .		0
123	Forecast UPC-Level FMCG Demand, Part IV: Statistical Ensemble. , 2018, , .		0
124	Ensemble kriging for environmental spatial processes. , 2019, , .		0
125	A Global Database For Quantifying Predictability of Solar Irradiance. , 2021, , .		0
126	Energy Conservation Model for Electromechanical Transient Characteristics of Electromagnetic Actuators. IEEE Transactions on Energy Conversion, 2022, , 1-11.	5.2	0