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	Calibration of deterministic NWP forecasts and its impact on verification. International Journal of Forecasting, 2023, 39, 981-991.	6.5	17
2	Sub-minute probabilistic solar forecasting for real-time stochastic simulations. Renewable and Sustainable Energy Reviews, 2022, 153, 111736.	16.4	11
3	Effects of foam structure on thermochemical characteristics of porous-filled solar reactor. Energy, 2022, 239, 122219.	8.8	26
4	Solar forecasting with hourly updated numerical weather prediction. Renewable and Sustainable Energy Reviews, 2022, 154, 111768.	16.4	35
5	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
6	A Concise Overview on Solar Resource Assessment and Forecasting. Advances in Atmospheric Sciences, 2022, 39, 1239-1251.	4.3	34
7	A historical weather forecast dataset from the European Centre for Medium-Range Weather Forecasts (ECMWF) for energy forecasting. Solar Energy, 2022, 232, 263-274.	6.1	39
8	Influences of atmospheric reanalysis on the accuracy of clear-sky irradiance estimates: Comparing MERRA-2 and CAMS. Atmospheric Environment, 2022, 277, 119080.	4.1	10
9	Verifying operational intra-day solar forecasts from ECMWF and NOAA. Solar Energy, 2022, 236, 743-755.	6.1	20
10	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. Renewable and Sustainable Energy Reviews, 2022, 159, 112195.	16.4	31
11	Irradiance-to-power conversion based on physical model chain: An application on the optimal configuration of multi-energy microgrid in cold climate. Renewable and Sustainable Energy Reviews, 2022, 161, 112356.	16.4	24
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.	16.4	80
13	Benchmarks for solar radiation time series forecasting. Renewable Energy, 2022, 191, 747-762.	8.9	6
14	Surrogate model of liquid cooling system for lithium-ion battery using extreme gradient boosting. Applied Thermal Engineering, 2022, 213, 118675.	6.0	8
15	Energy Conservation Model for Electromechanical Transient Characteristics of Electromagnetic Actuators. IEEE Transactions on Energy Conversion, 2022, , 1-11.	5.2	0
16	Effects of spatial scale of atmospheric reanalysis data on clear-sky surface radiation modeling in tropical climates: A case study for Singapore. Solar Energy, 2022, 241, 525-537.	6.1	8
17	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
18	Validation of the 5-min irradiance from the National Solar Radiation Database (NSRDB). Journal of Renewable and Sustainable Energy, 2021, 13, .	2.0	26

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19	Probabilistic merging and verification of monthly gridded aerosol products. Atmospheric Environment, 2021, 247, 118146.	4.1	10
20	Post-processing in solar forecasting: Ten overarching thinking tools. Renewable and Sustainable Energy Reviews, 2021, 140, 110735.	16.4	57
21	A Global Database For Quantifying Predictability of Solar Irradiance. , 2021, , .		0
22	Operational solar forecasting for grid integration: Standards, challenges, and outlook. Solar Energy, 2021, 224, 930-937.	6.1	32
23	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
24	On predictability of solar irradiance. Journal of Renewable and Sustainable Energy, 2021, 13, .	2.0	12
25	Temporal-resolution cascade model for separation of 1-min beam and diffuse irradiance. Journal of Renewable and Sustainable Energy, 2021, 13, .	2.0	17
26	Worldwide validation of CAMS and MERRA-2 reanalysis aerosol optical depth products using 15 years of AERONET observations. Atmospheric Environment, 2020, 225, 117216.	4.1	131
27	Can we justify producing univariate machine-learning forecasts with satellite-derived solar irradiance?. Applied Energy, 2020, 259, 114122.	10.1	33
28	A Survey of Computational Intelligence Techniques for Wind Power Uncertainty Quantification in Smart Grids. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4582-4599.	11.3	67
29	Ensemble model output statistics for the separation of direct and diffuse components from 1-min global irradiance. Solar Energy, 2020, 208, 591-603.	6.1	31
30	Reconciling solar forecasts: Probabilistic forecasting with homoscedastic Gaussian errors on a geographical hierarchy. Solar Energy, 2020, 210, 59-67.	6.1	22
31	Preface of progress in solar energy special issue: Grid integration. Solar Energy, 2020, 210, 1-2.	6.1	2
32	Dirichlet downscaling model for synthetic solar irradiance time series. Journal of Renewable and Sustainable Energy, 2020, 12, 063702.	2.0	11
33	Reconciling solar forecasts: Probabilistic forecast reconciliation in a nonparametric framework. Solar Energy, 2020, 210, 49-58.	6.1	23
34	Ensemble model output statistics as a probabilistic site-adaptation tool for solar irradiance: A revisit. Journal of Renewable and Sustainable Energy, 2020, 12, .	2.0	8
35	Energy Forecasting: A Review and Outlook. IEEE Open Access Journal of Power and Energy, 2020, 7, 376-388.	3.4	268
36	Ensemble solar forecasting using data-driven models with probabilistic post-processing through GAMLSS. Solar Energy, 2020, 208, 612-622.	6.1	20

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37	Clear-sky index space-time trajectories from probabilistic solar forecasts: Comparing promising copulas. Journal of Renewable and Sustainable Energy, 2020, 12, 026102.	2.0	7
38	Probabilistic solar irradiance transposition models. Renewable and Sustainable Energy Reviews, 2020, 125, 109814.	16.4	19
39	Verification of deterministic solar forecasts. Solar Energy, 2020, 210, 20-37.	6.1	142
40	Probabilistic solar forecasting benchmarks on a standardized dataset at Folsom, California. Solar Energy, 2020, 206, 628-639.	6.1	32
41	Comment: Operational aspects of solar forecasting. Solar Energy, 2020, 210, 38-40.	6.1	10
42	Ensemble model output statistics as a probabilistic site-adaptation tool for satellite-derived and reanalysis solar irradiance. Journal of Renewable and Sustainable Energy, 2020, 12, .	2.0	23
43	Choice of clear-sky model in solar forecasting. Journal of Renewable and Sustainable Energy, 2020, 12, .	2.0	78
44	Worldwide validation of 8 satellite-derived and reanalysis solar radiation products: A preliminary evaluation and overall metrics for hourly data over 27Âyears. Solar Energy, 2020, 210, 3-19.	6.1	115
45	Solar Project Financing, Bankability, and Resource Assessment. Green Energy and Technology, 2020, , 179-211.	0.6	2
46	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. Journal of Renewable and Sustainable Energy, 2020, 12, 056104.	2.0	10
47	High-Precision XY Stage Motion Control of Industrial Microscope. IEEE Transactions on Industrial Electronics, 2019, 66, 1984-1992.	7.9	15
48	Post-processing of NWP forecasts using ground or satellite-derived data through kernel conditional density estimation. Journal of Renewable and Sustainable Energy, 2019, 11, .	2.0	38
49	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
50	OpenSolar: Promoting the openness and accessibility of diverse public solar datasets. Solar Energy, 2019, 188, 1369-1379.	6.1	27
51	SolarData package update v1.1: R functions for easy access of Baseline Surface Radiation Network (BSRN). Solar Energy, 2019, 188, 970-975.	6.1	24
52	Standard of reference in operational day-ahead deterministic solar forecasting. Journal of Renewable and Sustainable Energy, 2019, 11, .	2.0	43
53	Ultra-fast analog ensemble using kd-tree. Journal of Renewable and Sustainable Energy, 2019, 11, .	2.0	21
54	Making reference solar forecasts with climatology, persistence, and their optimal convex combination. Solar Energy, 2019, 193, 981-985.	6.1	54

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55	Impact of Information Sharing and Forecast Combination on Fast-Moving-Consumer-Goods Demand Forecast Accuracy. Information (Switzerland), 2019, 10, 260.	2.9	7
56	Operational solar forecasting for the real-time market. International Journal of Forecasting, 2019, 35, 1499-1519.	6.5	87
57	An ultra-fast way of searching weather analogs for renewable energy forecasting. Solar Energy, 2019, 185, 255-261.	6.1	32
58	A universal benchmarking method for probabilistic solar irradiance forecasting. Solar Energy, 2019, 184, 410-416.	6.1	49
59	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, .	2.0	99
60	Satellite-augmented diffuse solar radiation separation models. Journal of Renewable and Sustainable Energy, 2019, 11, .	2.0	42
61	On post-processing day-ahead NWP forecasts using Kalman filtering. Solar Energy, 2019, 182, 179-181.	6.1	48
62	Can we gauge forecasts using satellite-derived solar irradiance?. Journal of Renewable and Sustainable Energy, 2019, 11, .	2.0	55
63	Automatic hourly solar forecasting using machine learning models. Renewable and Sustainable Energy Reviews, 2019, 105, 487-498.	16.4	167
64	Ensemble kriging for environmental spatial processes. , 2019, , .		0
65	Reconciling solar forecasts: Sequential reconciliation. Solar Energy, 2019, 179, 391-397.	6.1	40
66	Operational photovoltaics power forecasting using seasonal time series ensemble. Solar Energy, 2018, 166, 529-541.	6.1	91
67	History and trends in solar irradiance and PV power forecasting: A preliminary assessment and review using text mining. Solar Energy, 2018, 168, 60-101.	6.1	338
68	A Siting and Sizing Optimization Approach for PVâ€“Batteryâ€“Diesel Hybrid Systems. IEEE Transactions on Industry Applications, 2018, 54, 2637-2645.	4.9	100
69	Forecast UPC-Level FMCG Demand, Part IV: Statistical Ensemble. , 2018, , .		0
70	Solar Forecast Reconciliation and Effects of Improved Base Forecasts. , 2018, , .		3
71	Performing literature review using text mining, Part III: Summarizing articles using TextRank. , 2018, , .		3
72	Quality Control for Solar Irradiance Data. , 2018, , .		10

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73	Ultra-fast preselection in lasso-type spatio-temporal solar forecasting problems. Solar Energy, 2018, 176, 788-796.	6.1	26
74	Deep learning solution for intra-day solar irradiance fore casting in tropical high variability regions. , 2018, , .		1
75	A Stochastic Power Flow Study to Investigate the Effects of Renewable Energy Integration. , 2018, , .		5
76	Using Combinational Methods for Forecast Improvement in PV Power Plants. , 2018, , .		3
77	SolarData: An R package for easy access of publicly available solar datasets. Solar Energy, 2018, 171, A3-A12.	6.1	65
78	A correct validation of the National Solar Radiation Data Base (NSRDB). Renewable and Sustainable Energy Reviews, 2018, 97, 152-155.	16.4	55
79	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. Energy, 2018, 160, 410-429.	8.8	85
80	Kriging for NSRDB PSM version 3 satellite-derived solar irradiance. Solar Energy, 2018, 171, 876-883.	6.1	24
81	Editorial: Submission of Data Article is now open. Solar Energy, 2018, 171, A1-A2.	6.1	24
82	Spatial prediction using kriging ensemble. Solar Energy, 2018, 171, 977-982.	6.1	19
83	Reconciling solar forecasts: Geographical hierarchy. Solar Energy, 2017, 146, 276-286.	6.1	63
84	Analyzing big time series data in solar engineering using features and PCA. Solar Energy, 2017, 153, 317-328.	6.1	30
85	Reconciling solar forecasts: Temporal hierarchy. Solar Energy, 2017, 158, 332-346.	6.1	52
86	On adding and removing sensors in a solar irradiance monitoring network for areal forecasting and PV system performance evaluation. Solar Energy, 2017, 155, 1417-1430.	6.1	27
87	Performing literature review using text mining, Part I: Retrieving technology infrastructure using Google Scholar and APIs. , 2017, , .		3
88	Low-cost precision motion control for industrial digital microscopy. , 2017, , .		2
89	PV parameter identification using reduced I-V data. , 2017, , .		4
90	Performing literature review using text mining, Part II: Expanding domain knowledge with abbreviation identification. , 2017, , .		2

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91	Forecast UPC-level FMCG demand, Part III: Grouped reconciliation. , 2016, , .		2
92	Spatial data dimension reduction using quadtree: A case study on satellite-derived solar radiation. , 2016, , .		5
93	Vessel movement analysis and pattern discovery using density-based clustering approach. , 2016, , .		21
94	Towards adaptive weight vectors for multiobjective evolutionary algorithm based on decomposition. , 2016, , .		10
95	Placement and sizing optimization for PV-battery-diesel hybrid systems. , 2016, , .		11
96	Solar radiation on inclined surfaces: Corrections and benchmarks. Solar Energy, 2016, 136, 288-302.	6.1	158
97	Short term solar irradiance forecasting using a mixed wavelet neural network. Renewable Energy, 2016, 90, 481-492.	8.9	137
98	On the impact of haze on the yield of photovoltaic systems in Singapore. Renewable Energy, 2016, 89, 389-400.	8.9	48
99	Simulation study of parameter estimation and measurement planning on photovoltaics degradation. International Journal of Energy and Statistics, 2015, 03, 1550013.	0.5	4
100	Day-Ahead Solar Irradiance Forecasting in a Tropical Environment. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, .	1.8	31
101	Expanding Existing Solar Irradiance Monitoring Network Using Entropy. IEEE Transactions on Sustainable Energy, 2015, 6, 1208-1215.	8.8	8
102	Non-contact measurement of POA irradiance and cell temperature for PV systems. , 2015, , .		0
103	Big data analytics for empowering milk yield prediction in dairy supply chains. , 2015, , .		12
104	Forecast UPC-level FMCG demand, Part I: Exploratory analysis and visualization. , 2015, , .		6
105	Forecast UPC-level FMCG demand, Part II: Hierarchical reconciliation. , 2015, , .		5
106	Graph-based analysis of resource dependencies in project networks. , 2015, , .		1
107	A Linear Identification of Diode Models from Single Iâ€“ V Characteristics of PV Panels. IEEE Transactions on Industrial Electronics, 2015, 62, 4181-4193.	7.9	103
108	Forecasting of global horizontal irradiance by exponential smoothing, using decompositions. Energy, 2015, 81, 111-119.	8.8	110

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109	A novel hybrid approach based on self-organizing maps, support vector regression and particle swarm optimization to forecast solar irradiance. Energy, 2015, 82, 570-577.	8.8	111
110	Solar irradiance monitoring network design using the variance quadtree algorithm. Renewables: Wind, Water, and Solar, 2015, 2, .	3.7	20
111	Very short term irradiance forecasting using the lasso. Solar Energy, 2015, 114, 314-326.	6.1	105
112	Very short-term irradiance forecasting at unobserved locations using spatio-temporal kriging. Solar Energy, 2015, 122, 1266-1278.	6.1	82
113	A linear method to extract diode model parameters of solar panels from a single Iâ€“V curve. Renewable Energy, 2015, 76, 135-142.	8.9	60
114	Bidirectional irradiance transposition based on the Perez model. Solar Energy, 2014, 110, 768-780.	6.1	38
115	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
116	The Impact of Haze on Performance Ratio and Short-Circuit Current of PV Systems in Singapore. IEEE Journal of Photovoltaics, 2014, 4, 1585-1592.	2.5	29
117	Satellite image analysis and a hybrid ESSS/ANN model to forecast solar irradiance in the tropics. Energy Conversion and Management, 2014, 79, 66-73.	9.2	76
118	Optimal Orientation and Tilt Angle for Maximizing in-Plane Solar Irradiation for PV Applications in Singapore. IEEE Journal of Photovoltaics, 2014, 4, 647-653.	2.5	82
119	Spatial Load Forecasting With Communication Failure Using Time-Forward Kriging. IEEE Transactions on Power Systems, 2014, 29, 2875-2882.	6.5	21
120	Solar irradiance forecasting using spatio-temporal empirical kriging and vector autoregressive models with parameter shrinkage. Solar Energy, 2014, 103, 550-562.	6.1	72
121	Solar irradiance forecasting using spatial-temporal covariance structures and time-forward kriging. Renewable Energy, 2013, 60, 235-245.	8.9	126
122	Evaluation of transposition and decomposition models for converting global solar irradiance from tilted surface to horizontal in tropical regions. Solar Energy, 2013, 97, 369-387.	6.1	43
123	Block Matching Algorithms: Their Applications and Limitations in Solar Irradiance Forecasting. Energy Procedia, 2013, 33, 335-342.	1.8	13
124	Short-term solar irradiance forecasting using exponential smoothing state space model. Energy, 2013, 55, 1104-1113.	8.8	159
125	The Estimation of Clear Sky Global Horizontal Irradiance at the Equator. Energy Procedia, 2012, 25, 141-148.	1.8	37
126	Hourly solar irradiance time series forecasting using cloud cover index. Solar Energy, 2012, 86, 3531-3543.	6.1	193