

Takashi Oozeki

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,258
citations

430874

18
h-index

395702

33
g-index

65
all docs

65
docs citations

65
times ranked

1234
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental studies of fault location in PV module strings. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1079-1082.	6.2	148
2	Use of support vector regression and numerically predicted cloudiness to forecast power output of a photovoltaic power plant in Kitakyushu, Japan. <i>Progress in Photovoltaics: Research and Applications</i> , 2012, 20, 874-882.	8.1	123
3	Effect of Temperature on PV Potential in the World. <i>Environmental Science & Technology</i> , 2011, 45, 9030-9035.	10.0	76
4	Cooperative home energy management using batteries for a photovoltaic system considering the diversity of households. <i>Energy Conversion and Management</i> , 2015, 96, 322-329.	9.2	68
5	Modeling of uncertainty of solar irradiance forecasts on numerical weather predictions with the estimation of multiple confidence intervals. <i>Renewable Energy</i> , 2018, 117, 193-201.	8.9	53
6	Regional forecasts of photovoltaic power generation according to different data availability scenarios: a study of four methods. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 1203-1218.	8.1	52
7	A Good Fit: Japan's Solar Power Program and Prospects for the New Power System. <i>IEEE Power and Energy Magazine</i> , 2013, 11, 65-74.	1.6	51
8	Regional forecasts and smoothing effect of photovoltaic power generation in Japan: An approach with principal component analysis. <i>Renewable Energy</i> , 2014, 68, 403-413.	8.9	44
9	Statistical Analysis of the Smoothing Effect for Photovoltaic Systems in a Large Area. <i>IEEE Transactions on Power and Energy</i> , 2010, 130, 491-500.	0.2	44
10	PV System With Reconnection to Improve Output Under Nonuniform Illumination. <i>IEEE Journal of Photovoltaics</i> , 2012, 2, 341-347.	2.5	43
11	An evaluation method of the fluctuation characteristics of photovoltaic systems by using frequency analysis. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 3356-3363.	6.2	39
12	An evaluation method of PV systems. <i>Solar Energy Materials and Solar Cells</i> , 2003, 75, 687-695.	6.2	37
13	Accuracy of the solar irradiance forecasts of the Japan Meteorological Agency mesoscale model for the Kanto region, Japan. <i>Solar Energy</i> , 2013, 98, 138-152.	6.1	37
14	On the Use of Maximum Likelihood and Input Data Similarity to Obtain Prediction Intervals for Forecasts of Photovoltaic Power Generation. <i>Journal of Electrical Engineering and Technology</i> , 2015, 10, 1342-1348.	2.0	37
15	Regional and seasonal characteristics of global horizontal irradiance forecasts obtained from the Japan Meteorological Agency mesoscale model. <i>Solar Energy</i> , 2015, 116, 83-99.	6.1	35
16	Performance evaluation of grid-connected photovoltaic systems based on two photovoltaic module technologies under tropical climate conditions. <i>Energy Conversion and Management</i> , 2018, 165, 244-252.	9.2	29
17	Direct Solar Energy. , 2011, , 333-400.		25
18	Forecasting Regional Photovoltaic Power Generation - A Comparison of Strategies to Obtain One-Day-Ahead Data. <i>Energy Procedia</i> , 2014, 57, 1337-1345.	1.8	22

#	ARTICLE	IF	CITATIONS
19	Interval quadratic programming for day-ahead dispatch of uncertain predicted demand. <i>Automatica</i> , 2016, 64, 163-173.	5.0	21
20	Estimation of satellite-derived regional photovoltaic power generation using a satellite-estimated solar radiation data. <i>Energy Science and Engineering</i> , 2018, 6, 570-583.	4.0	17
21	Analytical results of output restriction due to the voltage increasing of power distribution line in grid-connected clustered PV systems. , 0, , .		16
22	An Evaluation Method for PV System to identify system losses by means of utilizing monitoring data. , 2006, , .		15
23	Forecasting of solar irradiance with just-in-time modeling. <i>Electrical Engineering in Japan (English)</i> Tj ETQq1 1 0.784314 rgBT /Overlo	0.4	15
24	Contribution of Voltage Support Function to Virtual Inertia Control Performance of Inverter-Based Resource in Frequency Stability. <i>Energies</i> , 2021, 14, 4220.	3.1	15
25	Impact of forecast error of photovoltaic power output on demand and supply operation in power systems. , 2014, , .		14
26	Monitoring and Evaluation of Photovoltaic System. <i>Energy Procedia</i> , 2013, 42, 456-464.	1.8	13
27	An Evaluation Method for PV Systems by using Limited Data Item. <i>IEEJ Transactions on Power and Energy</i> , 2005, 125, 1299-1307.	0.2	12
28	Performance trends in grid-connected photovoltaic systems for public and industrial use in Japan. <i>Progress in Photovoltaics: Research and Applications</i> , 2010, 18, 596-602.	8.1	12
29	Enhancements in Day-Ahead Forecasts of Solar Irradiation with Machine Learning: A Novel Analysis with the Japanese Mesoscale Model. <i>Journal of Applied Meteorology and Climatology</i> , 2020, 59, 1011-1028.	1.5	10
30	Development of Unit Commitment Model Considering Confidence Intervals of Photovoltaics Forecast and Analysis of a Large Scale Power System. <i>IEEJ Transactions on Power and Energy</i> , 2016, 136, 484-496.	0.2	10
31	An analysis of reliability in the early stages of photovoltaic systems in Japan. <i>Progress in Photovoltaics: Research and Applications</i> , 2010, 18, 363-370.	8.1	8
32	Quantitative Analysis Method of Output Loss due to Restriction for Grid-connected PV Systems. <i>IEEJ Transactions on Power and Energy</i> , 2005, 125, 1317-1326.	0.2	6
33	Quantitative analysis of output loss due to restriction for grid-connected PV systems. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2007, 158, 9-19.	0.4	6
34	Regional photovoltaic power fluctuations within frequency regulation control time frames: A study with high-resolution data. <i>Progress in Photovoltaics: Research and Applications</i> , 2018, 26, 402-413.	8.1	6
35	Regional Solar Irradiance Forecast for Kanto Region by Support Vector Regression Using Forecast of Meso-Ensemble Prediction System. <i>Energies</i> , 2021, 14, 3245.	3.1	6
36	An Estimation Method of Irradiation Data for Evaluating PV Systems. <i>IEEJ Transactions on Power and Energy</i> , 2005, 125, 118-126.	0.2	6

#	ARTICLE	IF	CITATIONS
37	The Latest Update of JMA Numerical Weather Prediction Models and its Solar Power Forecasting Errors. IEEJ Transactions on Power and Energy, 2018, 138, 881-892.	0.2	6
38	An evaluation method for smoothing effect on photovoltaic systems dispersed in a large area. , 2009, , .		5
39	Estimation of Confidence Intervals of Global Horizontal Irradiance Obtained from a Weather Prediction Model. Energy Procedia, 2014, 59, 278-284.	1.8	5
40	Evaluation of Power Surpluses and Shortfalls Due to Error in Forecasting of Photovoltaic Generation Output. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2015, 192, 34-45.	0.4	5
41	A case study of outlier event on solar irradiance forecasts from the two NWP's with different horizontal resolutions. Renewable Energy and Environmental Sustainability, 2016, 1, 37.	1.4	5
42	Comparative performance evaluation of different technologies of photovoltaic modules in Algeria. , 2016, , .		5
43	Outlier Events of Solar Forecasts for Regional Power Grid in Japan Using JMA Mesoscale Model. Energies, 2018, 11, 2714.	3.1	5
44	Impact of aerosols on the forecast accuracy of solar irradiance calculated by a numerical weather prediction model. European Physical Journal: Special Topics, 2014, 223, 2621-2630.	2.6	4
45	Power system operation with battery charge/discharge scheduling based on interval analysis. Journal of International Council on Electrical Engineering, 2016, 6, 57-64.	0.4	4
46	Estimation and forecast accuracy of regional photovoltaic power generation with upscaling method using the large monitoring data in Kyushu, Japan. IFAC-PapersOnLine, 2018, 51, 582-585.	0.9	4
47	Evaluation of Residential PV-EV System for Supply and Demand Balance of Power System. IEEJ Transactions on Power and Energy, 2015, 135, 27-34.	0.2	4
48	Internal Induced Voltage Modification for Current Limitation in Virtual Synchronous Machine. Energies, 2022, 15, 901.	3.1	4
49	An Analysis of Reliability for Photovoltaic Systems on the Field Test Project for Photovoltaic in Japan. , 2008, , 1628-1632.		3
50	Evaluation of Residential PV-EV System for Supply and Demand Balance of Power System. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2016, 195, 11-20.	0.4	3
51	Solar Irradiance Forecasts by Mesoscale Numerical Weather Prediction Models with Different Horizontal Resolutions. Energies, 2019, 12, 1374.	3.1	3
52	Characterizing the Regional Photovoltaic Power Forecast Error in Japan: A Study of 5 Regions. IEEJ Transactions on Power and Energy, 2014, 134, 537-544.	0.2	3
53	On-site measurements of photovoltaic systems for detection of failure modules. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	2
54	Five years operation results of different crystalline-Si PV systems and analysis of the degradation rate in the field. , 2013, , .		2

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55	Seasonal and Regional Variations of the Range of Forecast Errors of Global Irradiance by the Japanese Operational Physical Model. Energy Procedia, 2014, 57, 1247-1256.	1.8	2
56	Evaluation of economic-load dispatching control based on forecasted photovoltaic power output. , 2014, , .		2
57	Evaluation of the performance of PV modules in Algeria. , 2015, , .		2
58	Improving Regional PV Power Curtailment with Better Day-ahead PV Forecasts: An Evaluation of 3 Forecasts. , 2018, , .		2
59	Evaluation of Forecast Errors of the Global Solar Irradiance Obtained from the Japan Meteorological Agency Global Spectral Model. IEEJ Transactions on Power and Energy, 2014, 134, 501-509.	0.2	2
60	Support Vector Quantile Regression for the Post-Processing of Meso-Scale Ensemble Prediction System Data in the Kanto Region: Solar Power Forecast Reducing Overestimation. Energies, 2022, 15, 1330.	3.1	2
61	Improvement of the Japan Meteorological Agency Meso-Scale Model for the Forecasting the Photovoltaic Power Production: Modification of the Cloud Scheme. Energy Procedia, 2014, 57, 1346-1353.	1.8	1
62	Power system operation by prediction interval of photovoltaic generation forecast. , 2015, , .		1
63	Effect of Day-ahead Forecasts on Curtailment Planning of PV Power in Japan. , 2016, , .		1
64	Accuracy of estimated shading loss ratio by means of the SV method - an extraction algorithm of maximum pattern. , 0, , .		0
65	A case study of photovoltaic power generation and its future ramp possibility for Tokyo electric power area. IFAC-PapersOnLine, 2018, 51, 645-650.	0.9	0