

# Hideaki Ohtake

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

498  
citations

759233

12  
h-index

713466

21  
g-index

49  
all docs

49  
docs citations

49  
times ranked

442  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	The Formation Mechanism of a Thick Cloud Band over the Northern Part of the Sea of Japan during Cold Air Outbreaks. <i>Journal of the Meteorological Society of Japan</i> , 2009, 87, 289-306.	1.8	17
10	Stalled Improvement in a Numerical Weather Prediction Model as Horizontal Resolution Increases to the Sub-Kilometer Scale. <i>Scientific Online Letters on the Atmosphere</i> , 2017, 13, 151-156.	1.4	16
11	Reduction of Power Imbalances Using Battery Energy Storage System in a Bulk Power System with Extremely Large Photovoltaics Interactions. <i>Energies</i> , 2021, 14, 522.	3.1	13
12	A diagnostic for advance detection of forecast busts of regional surface solar radiation using multi-center grand ensemble forecasts. <i>Solar Energy</i> , 2018, 162, 196-204.	6.1	12
13	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
14	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
15	Coordinated operation of a battery energy storage system and thermal generators for supply-demand balance maintenance and efficient use of photovoltaic energy. <i>Electrical Engineering in Japan (English)</i> Tj ETQq1 1 @784314 ogBT /Ov		
16	Analysis of Photovoltaic Power Yield Curtailment in Day-ahead Unit Commitment. <i>IEEJ Transactions on Power and Energy</i> , 2017, 137, 520-529.	0.2	9
17	Evaluation of unit commitment based on intraday few-hours-ahead photovoltaic generation forecasts to reduce the supply-demand imbalance. , 2017, , .		8
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	The Latest Update of JMA Numerical Weather Prediction Models and its Solar Power Forecasting Errors. <i>IEEJ Transactions on Power and Energy</i> , 2018, 138, 881-892.	0.2	6
21	Coordinated Operation of Battery Energy Storage System and Thermal Generators for Supply-Demand Balance Maintenance and Efficient Use of Photovoltaic Energy. <i>IEEJ Transactions on Power and Energy</i> , 2019, 139, 106-114.	0.2	6
22	Estimation of Confidence Intervals of Global Horizontal Irradiance Obtained from a Weather Prediction Model. <i>Energy Procedia</i> , 2014, 59, 278-284.	1.8	5
23	A case study of outlier event on solar irradiance forecasts from the two NWP models with different horizontal resolutions. <i>Renewable Energy and Environmental Sustainability</i> , 2016, 1, 37.	1.4	5
24	Economic impact of photovoltaic power forecast error on power system operation in Japan. , 2017, , .		5
25	Coordinated operation scheduling method for BESS and thermal generators based on photovoltaic generation forecasts released every several hours. , 2017, , .		5
26	Outlier Events of Solar Forecasts for Regional Power Grid in Japan Using JMA Mesoscale Model. <i>Energies</i> , 2018, 11, 2714.	3.1	5
27	Simultaneous Operation Scheduling of Generators and Battery Energy Storage System based on Actual and Forecasted Photovoltaic Power Outputs. , 2019, , .		5
28	Impact of aerosols on the forecast accuracy of solar irradiance calculated by a numerical weather prediction model. <i>European Physical Journal: Special Topics</i> , 2014, 223, 2621-2630.	2.6	4
29	Analysis of Error Causes of the Irradiation Forecast by the Japan Meteorological Agency Meso-Scale Model. <i>IEEJ Transactions on Power and Energy</i> , 2014, 134, 518-526.	0.2	4
30	Statistical Validation of a Cloud Resolving Model Using Aircraft Observations of Orographic Snow Clouds. <i>Journal of the Meteorological Society of Japan</i> , 2014, 92, 287-304.	1.8	4
31	Annual Evaluation of Supply-Demand with BESS Charging/Discharging Schedule and UC Updating Based on Intraday Forecasted PV Power Outputs. , 2018, , .		3
32	Solar Irradiance Forecasts by Mesoscale Numerical Weather Prediction Models with Different Horizontal Resolutions. <i>Energies</i> , 2019, 12, 1374.	3.1	3
33	Use of Meso-ensemble Prediction System for Renewable Power Forecast and its Future Task. <i>IEEJ Transactions on Power and Energy</i> , 2021, 141, 287-290.	0.2	3
34	Characterizing the Regional Photovoltaic Power Forecast Error in Japan: A Study of 5 Regions. <i>IEEJ Transactions on Power and Energy</i> , 2014, 134, 537-544.	0.2	3
35	Economic-load dispatching Control by Optimal Power Flow with Photovoltaic Energy Curtailment Considering Transmission Network Constraints in Interconnected Bulk Power Systems. <i>IEEJ Transactions on Power and Energy</i> , 2019, 139, 74-83.	0.2	3
36	The role of atmospheric circulation in the growth of sea-ice extent in marginal seas around the Arctic Ocean. <i>Annals of Glaciology</i> , 2005, 42, 352-360.	1.4	2

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Local and Regional Hour-Ahead Forecasts of Solar Irradiance with Training Data Selection and Support Vector Regression. IEEJ Transactions on Power and Energy, 2016, 136, 898-907.	0.2	2
40	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
41	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
42	Impact of generator failures on photovoltaic energy curtailment in power systems with large-scale integration of photovoltaic generation. , 2017, , .		1
43	Demand and Supply Operations of Power Systems with Battery Energy Storage System Using Photovoltaic Forecasting with Prediction Intervals. , 2018, , .		1
44	Application of Prediction Intervals to Probabilistic Reliability Evaluation of Unit Commitment Based on Day-ahead Forecast of PV Power Output. , 2018, , .		1
45	Reliability and Economic Efficiency in Power System with PV Considering Import Fuel Price Transition. , 2019, , .		1
46	Operation of Battery Energy Storage Systems Considering Transmission Network in Bulk Power System with Large-scale Photovoltaic Systems. , 2019, , .		1
47	Fast parallel calculation for optimal power demand control in multi-layer smart grids. , 2017, , .		0
48	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
49	State-of-the-art Technology and Development of Numerical Prediction Models and its Applications for Renewable Energy Fields. IEEJ Transactions on Electronics, Information and Systems, 2017, 137, 904-909.	0.2	0