

Merlinde Kay

List of Publications by Year in descending order

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28
papers

1,537
citations

623734

14
h-index

552781

26
g-index

28
all docs

28
docs citations

28
times ranked

1706
citing authors

#	ARTICLE	IF	CITATIONS
1	Dust cycle and soiling issues affecting solar energy reductions in Australia using multiple datasets. Applied Energy, 2022, 310, 118626.	10.1	12
2	Forecasting error processing techniques and frequency domain decomposition for forecasting error compensation and renewable energy firming in hybrid systems. Applied Energy, 2022, 313, 118748.	10.1	10
3	Future climate scenarios and their impact on heating, ventilation and air-conditioning system design and performance for commercial buildings for 2050. Renewable and Sustainable Energy Reviews, 2022, 162, 112363.	16.4	22
4	Modelling and optimal energy management for battery energy storage systems in renewable energy systems: A review. Renewable and Sustainable Energy Reviews, 2022, 167, 112671.	16.4	83
5	Impact of forecasting error characteristics on battery sizing in hybrid power systems. Journal of Energy Storage, 2021, 39, 102567.	8.1	10
6	Prediction of Solar Power Using Near-Real Time Satellite Data. Energies, 2021, 14, 5865.	3.1	14
7	Synergy of solar photovoltaics-wind-battery systems in Australia. Renewable and Sustainable Energy Reviews, 2021, 152, 111693.	16.4	14
8	Estimation of future changes in photovoltaic potential in Australia due to climate change. Environmental Research Letters, 2021, 16, 114034.	5.2	9
9	Assessment of Simulated Solar Irradiance on Days of High Intermittency Using WRF-Solar. Energies, 2020, 13, 385.	3.1	15
10	A Mixed Receding Horizon Control Strategy for Battery Energy Storage System Scheduling in a Hybrid PV and Wind Power Plant with Different Forecast Techniques. Energies, 2019, 12, 2326.	3.1	9
11	Brighten the dark skies. Nature Energy, 2019, 4, 633-634.	39.5	3
12	Evaluation of solar irradiance forecasting skills of the Australian Bureau of Meteorology's ACCESS models. Solar Energy, 2019, 188, 386-402.	6.1	14
13	Battery energy storage system size determination in renewable energy systems: A review. Renewable and Sustainable Energy Reviews, 2018, 91, 109-125.	16.4	590
14	A Comparison Study of Dispatching Various Battery Technologies in a Hybrid PV and Wind Power Plant. , 2018, , .		7
15	The resilience of Australian wind energy to climate change. Environmental Research Letters, 2018, 13, 024014.	5.2	20
16	Assessment of solar and wind resource synergy in Australia. Applied Energy, 2017, 190, 354-367.	10.1	178
17	Development of a Numerical Weather Analysis Tool for Assessing the Precooling Potential at Any Location. Energies, 2017, 10, 21.	3.1	7
18	An economic optimization for BESS sizing in a hybrid PV and wind power plant. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
19	The Application of TAPM for Site Specific Wind Energy Forecasting. Atmosphere, 2016, 7, 23.	2.3	6
20	Evaluating the benefits of using short-term direct normal irradiance forecasts to operate a concentrated solar thermal plant. Solar Energy, 2016, 140, 93-108.	6.1	25
21	Calculating the financial value of a concentrated solar thermal plant operated using direct normal irradiance forecasts. Solar Energy, 2016, 125, 267-281.	6.1	53
22	Assessment of direct normal irradiance and cloud connections using satellite data over Australia. Applied Energy, 2015, 143, 301-311.	10.1	40
23	Development of hybrid numerical and statistical short term horizon weather prediction models for building energy management optimisation. Building and Environment, 2015, 90, 82-95.	6.9	23
24	Spatio-temporal characterisation of extended low direct normal irradiance events over Australia using satellite derived solar radiation data. Renewable Energy, 2015, 74, 633-639.	8.9	11
25	Evaluation and improvement of TAPM in estimating solar irradiance in Eastern Australia. Solar Energy, 2014, 107, 668-680.	6.1	14
26	Direct normal irradiance forecasting and its application to concentrated solar thermal output forecasting – A review. Solar Energy, 2014, 108, 287-307.	6.1	151
27	Optimisation of energy management in commercial buildings with weather forecasting inputs: A review. Renewable and Sustainable Energy Reviews, 2014, 39, 587-603.	16.4	126
28	Detecting, categorizing and forecasting large ramps in wind farm power output using meteorological observations and WPPT. Wind Energy, 2007, 10, 453-470.	4.2	69