

# Merlinde Kay

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Battery energy storage system size determination in renewable energy systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 109-125.	16.4	590
2	Assessment of solar and wind resource synergy in Australia. <i>Applied Energy</i> , 2017, 190, 354-367.	10.1	178
3	Direct normal irradiance forecasting and its application to concentrated solar thermal output forecasting – A review. <i>Solar Energy</i> , 2014, 108, 287-307.	6.1	151
4	Optimisation of energy management in commercial buildings with weather forecasting inputs: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 587-603.	16.4	126
5	Modelling and optimal energy management for battery energy storage systems in renewable energy systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112671.	16.4	83
6	Detecting, categorizing and forecasting large ramps in wind farm power output using meteorological observations and WPPT. <i>Wind Energy</i> , 2007, 10, 453-470.	4.2	69
7	Calculating the financial value of a concentrated solar thermal plant operated using direct normal irradiance forecasts. <i>Solar Energy</i> , 2016, 125, 267-281.	6.1	53
8	Assessment of direct normal irradiance and cloud connections using satellite data over Australia. <i>Applied Energy</i> , 2015, 143, 301-311.	10.1	40
9	Evaluating the benefits of using short-term direct normal irradiance forecasts to operate a concentrated solar thermal plant. <i>Solar Energy</i> , 2016, 140, 93-108.	6.1	25
10	Development of hybrid numerical and statistical short term horizon weather prediction models for building energy management optimisation. <i>Building and Environment</i> , 2015, 90, 82-95.	6.9	23
11	Future climate scenarios and their impact on heating, ventilation and air-conditioning system design and performance for commercial buildings for 2050. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 162, 112363.	16.4	22
12	The resilience of Australian wind energy to climate change. <i>Environmental Research Letters</i> , 2018, 13, 024014.	5.2	20
13	Assessment of Simulated Solar Irradiance on Days of High Intermittency Using WRF-Solar. <i>Energies</i> , 2020, 13, 385.	3.1	15
14	Evaluation and improvement of TAPM in estimating solar irradiance in Eastern Australia. <i>Solar Energy</i> , 2014, 107, 668-680.	6.1	14
15	Evaluation of solar irradiance forecasting skills of the Australian Bureau of Meteorology's ACCESS models. <i>Solar Energy</i> , 2019, 188, 386-402.	6.1	14
16	Prediction of Solar Power Using Near-Real Time Satellite Data. <i>Energies</i> , 2021, 14, 5865.	3.1	14
17	Synergy of solar photovoltaics-wind-battery systems in Australia. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111693.	16.4	14
18	Dust cycle and soiling issues affecting solar energy reductions in Australia using multiple datasets. <i>Applied Energy</i> , 2022, 310, 118626.	10.1	12

#	ARTICLE	IF	CITATIONS
19	Spatio-temporal characterisation of extended low direct normal irradiance events over Australia using satellite derived solar radiation data. <i>Renewable Energy</i> , 2015, 74, 633-639.	8.9	11
20	Impact of forecasting error characteristics on battery sizing in hybrid power systems. <i>Journal of Energy Storage</i> , 2021, 39, 102567.	8.1	10
21	Forecasting error processing techniques and frequency domain decomposition for forecasting error compensation and renewable energy firming in hybrid systems. <i>Applied Energy</i> , 2022, 313, 118748.	10.1	10
22	A Mixed Receding Horizon Control Strategy for Battery Energy Storage System Scheduling in a Hybrid PV and Wind Power Plant with Different Forecast Techniques. <i>Energies</i> , 2019, 12, 2326.	3.1	9
23	Estimation of future changes in photovoltaic potential in Australia due to climate change. <i>Environmental Research Letters</i> , 2021, 16, 114034.	5.2	9
24	Development of a Numerical Weather Analysis Tool for Assessing the Precooling Potential at Any Location. <i>Energies</i> , 2017, 10, 21.	3.1	7
25	A Comparison Study of Dispatching Various Battery Technologies in a Hybrid PV and Wind Power Plant. , 2018, , .		7
26	The Application of TAPM for Site Specific Wind Energy Forecasting. <i>Atmosphere</i> , 2016, 7, 23.	2.3	6
27	Brighten the dark skies. <i>Nature Energy</i> , 2019, 4, 633-634.	39.5	3
28	An economic optimization for BESS sizing in a hybrid PV and wind power plant. , 2017, , .		2