Matthew Lave

List of Publications by Year
in descending order

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Version: 2024-02-01

39 papers	1,821 citations	623188 14 h-index	794141 19 g-index
40 all docs	40 docs citations	40 times ranked	1478 citing authors

#	Article	IF	Citations
1	Intra-hour forecasting with a total sky imager at the UC San Diego solar energy testbed. Solar Energy, 2011, 85, 2881-2893.	2.9	462
2	High-frequency irradiance fluctuations and geographic smoothing. Solar Energy, 2012, 86, 2190-2199.	2.9	189
3	A Wavelet-Based Variability Model (WVM) for Solar PV Power Plants. IEEE Transactions on Sustainable Energy, 2013, 4, 501-509.	5.9	150
4	Optimum fixed orientations and benefits of tracking for capturing solar radiation in the continental United States. Renewable Energy, 2011, 36, 1145-1152.	4.3	149
5	Solar variability of four sites across the state of Colorado. Renewable Energy, 2010, 35, 2867-2873.	4.3	146
6	Evaluation of Global Horizontal Irradiance to Plane-of-Array Irradiance Models at Locations Across the United States. IEEE Journal of Photovoltaics, 2015, 5, 597-606.	1.5	111
7	Cloud speed impact on solar variability scaling â€“ Application to the wavelet variability model. Solar Energy, 2013, 91, 11-21.	2.9	104
8	Characterizing local high-frequency solar variability and its impact to distribution studies. Solar Energy, 2015, 118, 327-337.	2.9	99
9	A Poisson model for anisotropic solar ramp rate correlations. Solar Energy, 2014, 101, 192-202.	2.9	62
10	Distribution System Parameter and Topology Estimation Applied to Resolve Low-Voltage Circuits on Three Real Distribution Feeders. IEEE Transactions on Sustainable Energy, 2019, 10, 1585-1592.	5.9	42
11	Photovoltaic Frequencyâ€“Watt Curve Design for Frequency Regulation and Fast Contingency Reserves. IEEE Journal of Photovoltaics, 2016, 6, 1611-1618.	1.5	39
12	Uncontrolled Electric Vehicle Charging Impacts on Distribution Electric Power Systems with Primarily Residential, Commercial or Industrial Loads. Energies, 2021, 14, 1688.	1.6	29
13	PV ramp rate smoothing using energy storage to mitigate increased voltage regulator tapping. , 2016, , .		21
14	Advanced inverter controls to dispatch distributed PV systems. , 2016, , .		21
15	Solar variability zones: Satellite-derived zones that represent high-frequency ground variability. Solar Energy, 2017, 151, 119-128.	2.9	21
16	Impact of Electric Vehicle customer response to Time-of-Use rates on distribution power grids. Energy Reports, 2022, 8, 8225-8235.	2.5	18
17	Simulated PV power plant variability: Impact of utility-imposed ramp limitations in Puerto Rico. , 2013, , .		17
18	High temporal resolution load variability compared to PV variability. , 2016, , .		12

#	Article	IF	Citations
19	Volt-Var Curve Reactive Power Control Requirements and Risks for Feeders with Distributed Roof-Top Photovoltaic Systems. Energies, 2020, 13, 4303.	1.6	10
20	Aggregate solar variability. , 2012, , .		9
21	Quantifying and Simulating Solar-Plant Variability Using Irradiance Data. , 2013, , 149-169.		8
22	Analyzing and simulating the reduction in PV powerplant variability due to geographic smoothing in Ota City, Japan and Alamosa, CO. , 2012, , .		5
23	Geospatial Assessment Methodology to Estimate Power Line Restoration Access Vulnerabilities After a Hurricane in Puerto Rico. IEEE Open Access Journal of Power and Energy, 2022, 9, 298-307.	2.5	5
24	Comparison of high-frequency solar irradiance: Ground measured vs. satellite-derived. , 2016, , .		4
25	Switch Location Identification for Integrating a Distant Photovoltaic Array Into a Microgrid. IEEE Access, 2022, 10, 57902-57913.	2.6	4
26	Solar power simulations for a renewable integration study in New Mexico using sparse input data. , 2015, , .		2
27	Comparison of solar and wind power generation impact on net load across a utility balancing area. , 2016, , .		2
28	Characterizing local high-frequency solar variability for use in distribution studies. , 2014, , .		1
29	Solar Variability Datalogger. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, .	1.1	1
30	On the ability of ground based global horizontal irradiance measurements to reduce error in satellite derived plane of array irradiance data for fixed tilt photovoltaic power plants. , 2016, , .		1
31	Notice of Removal Photovoltaic frequency-watt curve design for frequency regulation and fast contingency reserves. , 2017, , .		1
32	Systemwide Considerations for Electrification of Transportation in Islands and Remote Locations. Vehicles, 2021, 3, 498-511.	1.7	1
33	Analyzing and simulating the reduction in PV powerplant variability due to geographic smoothing in Ota City, Japan and Alamosa, CO. , 2013, , .		0
34	Low-cost solar variability sensors for ubiquitous deployment. , 2015, , .		0
35	Using a few spectral wavelengths to enhance short circuit current predictions in PV performance models. , 2016, , .		0
36	Targeted Evaluation of Utility-Scale and Distributed Solar Forecasting. , 2017, , .		0

#	Article	IF	Citations
37	gridPULSE: Public User Library for Systems Evaluation to Accelerate Grid Modernization. , 2018, , .		0
38	Simulating High-Frequency Generation Profiles for Large Solar PV Portfolios. , 2018, , .		0
39	Graph Theory and Nighttime Imagery based Microgrid Design. Journal of Renewable and Sustainable Energy, 0, , .	0.8	0