

Matthew Lave

List of Publications by Year in descending order

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39
papers

1,821
citations

623734

14
h-index

794594

19
g-index

40
all docs

40
docs citations

40
times ranked

1478
citing authors

#	ARTICLE	IF	CITATIONS
1	Switch Location Identification for Integrating a Distant Photovoltaic Array Into a Microgrid. IEEE Access, 2022, 10, 57902-57913.	4.2	4
2	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.	3.4	5
3	Impact of Electric Vehicle customer response to Time-of-Use rates on distribution power grids. Energy Reports, 2022, 8, 8225-8235.	5.1	18
4	Uncontrolled Electric Vehicle Charging Impacts on Distribution Electric Power Systems with Primarily Residential, Commercial or Industrial Loads. Energies, 2021, 14, 1688.	3.1	29
5	Systemwide Considerations for Electrification of Transportation in Islands and Remote Locations. Vehicles, 2021, 3, 498-511.	3.1	1
6	Volt-Var Curve Reactive Power Control Requirements and Risks for Feeders with Distributed Roof-Top Photovoltaic Systems. Energies, 2020, 13, 4303.	3.1	10
7	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.	8.8	42
8	gridPULSE: Public User Library for Systems Evaluation to Accelerate Grid Modernization. , 2018, , .		0
9	Simulating High-Frequency Generation Profiles for Large Solar PV Portfolios. , 2018, , .		0
10	Solar variability zones: Satellite-derived zones that represent high-frequency ground variability. Solar Energy, 2017, 151, 119-128.	6.1	21
11	Targeted Evaluation of Utility-Scale and Distributed Solar Forecasting. , 2017, , .		0
12	Notice of Removal Photovoltaic frequency-watt curve design for frequency regulation and fast contingency reserves. , 2017, , .		1
13	Solar Variability Datalogger. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, .	1.8	1
14	High temporal resolution load variability compared to PV variability. , 2016, , .		12
15	PV ramp rate smoothing using energy storage to mitigate increased voltage regulator tapping. , 2016, , .		21
16	Advanced inverter controls to dispatch distributed PV systems. , 2016, , .		21
17	Comparison of solar and wind power generation impact on net load across a utility balancing area. , 2016, , .		2
18	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

#	ARTICLE	IF	CITATIONS
19	Comparison of high-frequency solar irradiance: Ground measured vs. satellite-derived. , 2016, , .		4
20	Using a few spectral wavelengths to enhance short circuit current predictions in PV performance models. , 2016, , .		0
21	Photovoltaic Frequencyâ€“Watt Curve Design for Frequency Regulation and Fast Contingency Reserves. IEEE Journal of Photovoltaics, 2016, 6, 1611-1618.	2.5	39
22	Low-cost solar variability sensors for ubiquitous deployment. , 2015, , .		0
23	Solar power simulations for a renewable integration study in New Mexico using sparse input data. , 2015, , .		2
24	Characterizing local high-frequency solar variability and its impact to distribution studies. Solar Energy, 2015, 118, 327-337.	6.1	99
25	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.	2.5	111
26	A Poisson model for anisotropic solar ramp rate correlations. Solar Energy, 2014, 101, 192-202.	6.1	62
27	Characterizing local high-frequency solar variability for use in distribution studies. , 2014, , .		1
28	Cloud speed impact on solar variability scaling â€“ Application to the wavelet variability model. Solar Energy, 2013, 91, 11-21.	6.1	104
29	A Wavelet-Based Variability Model (WVM) for Solar PV Power Plants. IEEE Transactions on Sustainable Energy, 2013, 4, 501-509.	8.8	150
30	Quantifying and Simulating Solar-Plant Variability Using Irradiance Data. , 2013, , 149-169.		8
31	Simulated PV power plant variability: Impact of utility-imposed ramp limitations in Puerto Rico. , 2013, , .		17
32	Analyzing and simulating the reduction in PV powerplant variability due to geographic smoothing in Ota City, Japan and Alamosa, CO. , 2013, , .		0
33	Analyzing and simulating the reduction in PV powerplant variability due to geographic smoothing in Ota City, Japan and Alamosa, CO. , 2012, , .		5
34	High-frequency irradiance fluctuations and geographic smoothing. Solar Energy, 2012, 86, 2190-2199.	6.1	189
35	Aggregate solar variability. , 2012, , .		9
36	Intra-hour forecasting with a total sky imager at the UC San Diego solar energy testbed. Solar Energy, 2011, 85, 2881-2893.	6.1	462

#	ARTICLE	IF	CITATIONS
37	Optimum fixed orientations and benefits of tracking for capturing solar radiation in the continental United States. Renewable Energy, 2011, 36, 1145-1152.	8.9	149
38	Solar variability of four sites across the state of Colorado. Renewable Energy, 2010, 35, 2867-2873.	8.9	146
39	Graph Theory and Nighttime Imagery based Microgrid Design. Journal of Renewable and Sustainable Energy, 0, , .	2.0	0