

Matthew Muller

List of Publications by Year in descending order

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40
papers

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687363

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42
docs citations

42
times ranked

364
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracking Soiling Losses: Assessment, Uncertainty, and Challenges in Mapping. IEEE Journal of Photovoltaics, 2022, 12, 114-118.	2.5	10
2	A Method for Estimating Time-Series PV Production Loss From Solar Tracking Failures. IEEE Journal of Photovoltaics, 2022, 12, 119-126.	2.5	1
3	Automated detection of photovoltaic cleaning events: A performance comparison of techniques as applied to a broad set of labeled photovoltaic data sets. Progress in Photovoltaics: Research and Applications, 2022, 30, 567-577.	8.1	3
4	Photovoltaic fleet degradation insights. Progress in Photovoltaics: Research and Applications, 2022, 30, 1166-1175.	8.1	18
5	Improved PV Soiling Extraction Through the Detection of Cleanings and Change Points. IEEE Journal of Photovoltaics, 2021, 11, 519-526.	2.5	24
6	An in-depth field validation of "DUSST": A novel low-maintenance soiling measurement device. Progress in Photovoltaics: Research and Applications, 2021, 29, 953-967.	8.1	11
7	Performance Index Assessment for the PV Fleet Performance Data Initiative. , 2021, , .		3
8	Performance Comparison of Clipping Detection Techniques in AC Power Time Series. , 2021, , .		2
9	Extracting and Generating PV Soiling Profiles for Analysis, Forecasting, and Cleaning Optimization. IEEE Journal of Photovoltaics, 2020, 10, 197-205.	2.5	28
10	Design, characterization and indoor validation of the optical soiling detector "DUSST". Solar Energy, 2020, 211, 1459-1468.	6.1	20
11	Selection of optimal wavelengths for optical soiling modelling and detection in photovoltaic modules. Solar Energy Materials and Solar Cells, 2020, 212, 110539.	6.2	10
12	PV Fleet Performance Data Initiative Program and Methodology. , 2020, , .		3
13	Indoor and Outdoor Test Results for "DUSST", a Low-Cost, Low-Maintenance PV Soiling Sensor. , 2019, , .		3
14	Evaluating the Accuracy of Various Irradiance Models in Detecting Soiling of Irradiance Sensors. , 2019, , .		3
15	Numerical Validation of an Algorithm for Combined Soiling and Degradation Analysis of Photovoltaic Systems. , 2019, , .		8
16	Mapping Photovoltaic Soiling Using Spatial Interpolation Techniques. IEEE Journal of Photovoltaics, 2019, 9, 272-277.	2.5	21
17	Predicting photovoltaic soiling losses using environmental parameters: An update. Progress in Photovoltaics: Research and Applications, 2019, 27, 210-219.	8.1	35
18	Effect of torque-tube parameters on rear-irradiance and rear-shading loss for bifacial PV performance on single-axis tracking systems. , 2019, , .		10

#	ARTICLE	IF	CITATIONS
19	Increased PV Soiling from High Module Voltages. , 2019, , .		1
20	Component cell-based restriction of spectral conditions and the impact on CPV module power rating. Progress in Photovoltaics: Research and Applications, 2018, 26, 351-358.	8.1	9
21	Quantifying Soiling Loss Directly From PV Yield. IEEE Journal of Photovoltaics, 2018, 8, 547-551.	2.5	66
22	A methodology to analyze photovoltaic tracker uptime. Progress in Photovoltaics: Research and Applications, 2018, 26, 491-501.	8.1	1
23	An investigation of the key parameters for predicting PV soiling losses. Progress in Photovoltaics: Research and Applications, 2017, 25, 291-307.	8.1	109
24	Seasonal Trends of Soiling on Photovoltaic Systems. , 2017, , .		14
25	Laboratory Studies of Particle Cementation and PV module Soiling. , 2017, , .		6
26	Quantifying Year-to-Year Variations in Solar Panel Soiling from PV Energy-Production Data. , 2017, , .		7
27	A unified global investigation on the spectral effects of soiling losses of PV glass substrates: preliminary results. , 2017, , .		7
28	NREL Efforts to Address Soiling on PV Modules. , 2017, , .		6
29	A Method to Extract Soiling Loss Data from Soiling Stations with Imperfect Cleaning Schedules. , 2017, , .		15
30	A side-by-side comparison of CPV module and system performance. Progress in Photovoltaics: Research and Applications, 2016, 24, 940-954.	8.1	3
31	Determining the effects of environment and atmospheric parameters on PV field performance. , 2016, , .		21
32	A scalable method for extracting soiling rates from PV production data. , 2016, , .		24
33	Translating outdoor CPV V_{oc} measurements to a CSTC power rating and the associated uncertainty. Progress in Photovoltaics: Research and Applications, 2015, 23, 1557-1571.	8.1	33
34	Key parameters in determining energy generated by CPV modules. Progress in Photovoltaics: Research and Applications, 2015, 23, 1250-1259.	8.1	35
35	Optical cell temperature measurements of multiple CPV technologies in outdoor conditions. , 2013, , .		3
36	Evaluating the IEC 61215 Ed.3 NMOT procedure against the existing NOCT procedure with PV modules in a side-by-side configuration. , 2012, , .		22

#	ARTICLE	IF	CITATIONS
37	Determining Outdoor CPV Cell Temperature. AIP Conference Proceedings, 2011, , .	0.4	21
38	Minimizing Variation In Outdoor CPV Power Ratings. AIP Conference Proceedings, 2011, , .	0.4	15
39	An Investigation into Spectral Parameters as they Impact CPV Module Performance. AIP Conference Proceedings, 2010, , .	0.4	34
40	Performance comparison of a BIPV roofing tile system in two mounting configurations. , 2009, , .		4