

Jennifer L Braid

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

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citations

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24
times ranked

361
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar Transposition Modeling via Deep Neural Networks With Sky Images. IEEE Journal of Photovoltaics, 2022, 12, 145-151.	2.5	6
2	Physics-Based Method for Generating Fully Synthetic IV Curve Training Datasets for Machine Learning Classification of PV Failures. Energies, 2022, 15, 5085.	3.1	5
3	Properties of PV Cell Fractures and Effects on Performance of Al-BSF and PERC Modules. , 2021, , .		0
4	Degradation Pathway Modeling of PV Minimodule Variants with Different Packaging Materials Under Indoor Accelerated Exposures. , 2021, , .		5
5	Degradation of Monofacial Double Glass and Glass Backsheet Photovoltaic Modules with Multiple Packaging Combinations. , 2021, , .		1
6	Degradation mechanisms and partial shading of glass-backsheet and double-glass photovoltaic modules in three climate zones determined by remote monitoring of time-series currentâ€“voltage and power datastreams. Solar Energy, 2021, 224, 1291-1301.	6.1	3
7	Direct nanoscale mapping of open circuit voltages at local back surface fields for PERC solar cells. Journal of Materials Science, 2020, 55, 11501-11511.	3.7	4
8	<i>Analytic</i> I_{sc} â€“ V_{oc} Method and Power Loss Modes From Outdoor Time-Series I â€“ V Curves. IEEE Journal of Photovoltaics, 2020, 10, 1379-1388.	2.5	13
9	Generalized and Mechanistic PV Module Performance Prediction From Computer Vision and Machine Learning on Electroluminescence Images. IEEE Journal of Photovoltaics, 2020, 10, 878-887.	2.5	35
10	Identifying Degradation Modes of Photovoltaic Modules Using Unsupervised Machine Learning on Electroluminescence Images. , 2020, , .		5
11	Data-Driven I â€“ V Feature Extraction for Photovoltaic Modules. IEEE Journal of Photovoltaics, 2019, 9, 1405-1412.	2.5	41
12	Automated Pipeline for Photovoltaic Module Electroluminescence Image Processing and Degradation Feature Classification. IEEE Journal of Photovoltaics, 2019, 9, 1324-1335.	2.5	63
13	Real-world PV Module Degradation across Climate Zones Determined from Suns- V_{oc} , Loss Factors and I-V Steps Analysis of Eight Years of I-V, P_{mp} Time-series Datastreams. , 2019, , .		5
14	Accurate Linear I-V Extraction of Ideality, Series and Shunt Resistances. , 2019, , .		0
15	Initial Stability of PERC vs. Al-BSF Cells. , 2018, , .		0
16	Evaluation of Photovoltaic Module Performance Using Novel Data-driven I-V Feature Extraction and Suns- V_{oc} Determined from Outdoor Time-Series I-V Curves. , 2018, , .		8
17	Feature Extraction, Supervised and Unsupervised Machine Learning Classification of PV Cell Electroluminescence Images. , 2018, , .		15
18	EL and I-V Correlation for Degradation of PERC vs. Al-BSF Commercial Modules in Accelerated Exposures. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	Cross-correlation Analysis of the Indoor Accelerated and Real World Exposed Photovoltaic Systems Across Multiple Climate Zones. , 2018, , .		1
20	Correlation of I-V Curve Parameters with Module-Level Electroluminescent Image Data Over 3000 Hours Damp-Heat Exposure. , 2017, , .		4
21	Electroluminescent Image Processing and Cell Degradation Type Classification via Computer Vision and Statistical Learning Methodologies. , 2017, , .		13
22	Determining the Power Rate of Change of 353 Plant Inverters Time-Series Data Across Multiple Climate Zones, Using a Month-By-Month Data Science Analysis. , 2017, , .		6
23	Molecular Design for Tuning Work Functions of Transparent Conducting Electrodes. Journal of Physical Chemistry Letters, 2015, 6, 2269-2276.	4.6	30
24	Conjugated Phosphonic Acid Modified Zinc Oxide Electron Transport Layers for Improved Performance in Organic Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 19229-19234.	8.0	29