

Jennifer L Braid

List of Publications by Year in descending order

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24
papers

295
citations

1478505

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1372567

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24
times ranked

361
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Automated Pipeline for Photovoltaic Module Electroluminescence Image Processing and Degradation Feature Classification. IEEE Journal of Photovoltaics, 2019, 9, 1324-1335. | 2.5 | 63 |
| 2 | Data-Driven I_{sc} - V_{oc} Feature Extraction for Photovoltaic Modules. IEEE Journal of Photovoltaics, 2019, 9, 1405-1412. | 2.5 | 41 |
| 3 | 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 |
| 4 | Molecular Design for Tuning Work Functions of Transparent Conducting Electrodes. Journal of Physical Chemistry Letters, 2015, 6, 2269-2276. | 4.6 | 30 |
| 5 | 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 |
| 6 | Feature Extraction, Supervised and Unsupervised Machine Learning Classification of PV Cell Electroluminescence Images. , 2018, , . | | 15 |
| 7 | Electroluminescent Image Processing and Cell Degradation Type Classification via Computer Vision and Statistical Learning Methodologies. , 2017, , . | | 13 |
| 8 | <i>Analytic</i> I_{sc} - V_{oc} Method and Power Loss Modes From Outdoor Time-Series I_{sc} - V_{oc} Curves. IEEE Journal of Photovoltaics, 2020, 10, 1379-1388. | 2.5 | 13 |
| 9 | Evaluation of Photovoltaic Module Performance Using Novel Data-driven I-V Feature Extraction and V_{oc} Determined from Outdoor Time-Series I-V Curves. , 2018, , . | | 8 |
| 10 | 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 |
| 11 | Solar Transposition Modeling via Deep Neural Networks With Sky Images. IEEE Journal of Photovoltaics, 2022, 12, 145-151. | 2.5 | 6 |
| 12 | Real-world PV Module Degradation across Climate Zones Determined from V_{oc} , Loss Factors and I-V Steps Analysis of Eight Years of I-V, P_{mp} Time-series Datastreams. , 2019, , . | | 5 |
| 13 | Degradation Pathway Modeling of PV Minimodule Variants with Different Packaging Materials Under Indoor Accelerated Exposures. , 2021, , . | | 5 |
| 14 | Identifying Degradation Modes of Photovoltaic Modules Using Unsupervised Machine Learning on Electroluminescence Images. , 2020, , . | | 5 |
| 15 | 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 |
| 16 | Correlation of I-V Curve Parameters with Module-Level Electroluminescent Image Data Over 3000 Hours Damp-Heat Exposure. , 2017, , . | | 4 |
| 17 | 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 |
| 18 | EL and I-V Correlation for Degradation of PERC vs. Al-BSF Commercial Modules in Accelerated Exposures. , 2018, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Degradation mechanisms and partial shading of glass-backsheet and double-glass photovoltaic modules in three climate zones determined by remote monitoring of time-series current-voltage and power datastreams. Solar Energy, 2021, 224, 1291-1301. | 6.1 | 3 |
| 20 | Cross-correlation Analysis of the Indoor Accelerated and Real World Exposed Photovoltaic Systems Across Multiple Climate Zones. , 2018, , . | | 1 |
| 21 | Degradation of Monofacial Double Glass and Glass Backsheet Photovoltaic Modules with Multiple Packaging Combinations. , 2021, , . | | 1 |
| 22 | Initial Stability of PERC vs. Al-BSF Cells. , 2018, , . | | 0 |
| 23 | Accurate Linear I-V Extraction of Ideality, Series and Shunt Resistances. , 2019, , . | | 0 |
| 24 | Properties of PV Cell Fractures and Effects on Performance of Al-BSF and PERC Modules. , 2021, , . | | 0 |