

Michael Owen-Bellini

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

259
citations

1163117

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all docs

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docs citations

25
times ranked

159
citing authors

#	ARTICLE	IF	CITATIONS
1	Advancing reliability assessments of photovoltaic modules and materials using combined accelerated stress testing. <i>Progress in Photovoltaics: Research and Applications</i> , 2021, 29, 64-82.	8.1	44
2	Glass/glass photovoltaic module reliability and degradation: a review. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 413002.	2.8	34
3	Combined-Accelerated Stress Testing System for Photovoltaic Modules. , 2018, , .		23
4	Effects of Photovoltaic Module Materials and Design on Module Deformation Under Load. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 838-843.	2.5	22
5	Use of indentation to study the degradation of photovoltaic backsheets. <i>Solar Energy Materials and Solar Cells</i> , 2019, 201, 110082.	6.2	18
6	Combined and Sequential Accelerated Stress Testing for Derisking Photovoltaic Modules. , 2019, , 279-313.		15
7	Towards validation of combined-accelerated stress testing through failure analysis of polyamide-based photovoltaic backsheets. <i>Scientific Reports</i> , 2021, 11, 2019.	3.3	15
8	Influence of Viscoelastic Properties of Encapsulation Materials on the Thermomechanical Behavior of Photovoltaic Modules. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 183-188.	2.5	11
9	Electrochemical degradation modes in bifacial silicon photovoltaic modules. <i>Progress in Photovoltaics: Research and Applications</i> , 2022, 30, 948-958.	8.1	11
10	Methods for <i>In Situ</i> Electroluminescence Imaging of Photovoltaic Modules Under Varying Environmental Conditions. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 1254-1261.	2.5	10
11	Failure Analysis of a New Polyamide-Based Fluoropolymer-Free Backsheet After Combined-Accelerated Stress Testing. <i>IEEE Journal of Photovoltaics</i> , 2021, 11, 1197-1205.	2.5	7
12	Validation of Advanced Photovoltaic Module Materials and Processes by Combined-Accelerated Stress Testing (C-AST). , 2019, , .		6
13	Effects of Photovoltaic Module Materials and Design on Module Deformation Under Load. , 2019, , .		6
14	Millions of Small Pressure Cycles Drive Damage in Cracked Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2022, 12, 1090-1093.	2.5	6
15	Correlation of advanced accelerated stress testing with polyamide-based photovoltaic backsheet field-failures. , 2019, , .		5
16	UV-Fluorescence Imaging of Silicon PV Modules After Outdoor Aging and Accelerated Stress Testing. , 2020, , .		5
17	Effect of viscoelasticity of ethylene vinyl acetate encapsulants on photovoltaic module solder joint degradation due to thermomechanical fatigue. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 08RG03.	1.5	4
18	Understanding PV Polymer Backsheet Degradation through X-ray Scattering. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
19	Cracked Solar Cell Performance Depends on Module Temperature. , 2021, , .		4
20	Computational Modeling of Photovoltaic Mini-Modules Undergoing Accelerated Stress Testing. , 2020, , .		4
21	Reproducing the "Framing" by a Sequential Stress Test. , 2019, , .		2
22	In-Situ Performance characterization of photovoltaic modules during combined-accelerated stress testing. , 2019, , .		2
23	Towards Validation of Advanced Accelerated Stress Testing Protocols through Failure Analysis and Materials Characterization. , 2020, , .		1
24	Evaluating Non-fluoropolymer-based Co-extruded Backsheets Using Combined-Accelerated Stress Testing and Materials Forensics. , 2020, , .		0
25	Highly Accelerated UV Stress Testing for Transparent Flexible Frontsheets. , 2020, , .		0