

# Michael Owen-Bellini

## List of Publications by Year in descending order

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25  
papers

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1163117

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docs citations

25  
times ranked

159  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical degradation modes in bifacial silicon photovoltaic modules. Progress in Photovoltaics: Research and Applications, 2022, 30, 948-958.	8.1	11
2	Millions of Small Pressure Cycles Drive Damage in Cracked Solar Cells. IEEE Journal of Photovoltaics, 2022, 12, 1090-1093.	2.5	6
3	Advancing reliability assessments of photovoltaic modules and materials using combined accelerated stress testing. Progress in Photovoltaics: Research and Applications, 2021, 29, 64-82.	8.1	44
4	Towards validation of combined-accelerated stress testing through failure analysis of polyamide-based photovoltaic backsheets. Scientific Reports, 2021, 11, 2019.	3.3	15
5	Cracked Solar Cell Performance Depends on Module Temperature. , 2021, , .		4
6	Glass/glass photovoltaic module reliability and degradation: a review. Journal Physics D: Applied Physics, 2021, 54, 413002.	2.8	34
7	Failure Analysis of a New Polyamide-Based Fluoropolymer-Free Backsheet After Combined-Accelerated Stress Testing. IEEE Journal of Photovoltaics, 2021, 11, 1197-1205.	2.5	7
8	Methods for <i>In Situ</i> Electroluminescence Imaging of Photovoltaic Modules Under Varying Environmental Conditions. IEEE Journal of Photovoltaics, 2020, 10, 1254-1261.	2.5	10
9	Effects of Photovoltaic Module Materials and Design on Module Deformation Under Load. IEEE Journal of Photovoltaics, 2020, 10, 838-843.	2.5	22
10	Computational Modeling of Photovoltaic Mini-Modules Undergoing Accelerated Stress Testing. , 2020, , .		4
11	Evaluating Non-fluoropolymer-based Co-extruded Backsheets Using Combined-Accelerated Stress Testing and Materials Forensics. , 2020, , .		0
12	UV-Fluorescence Imaging of Silicon PV Modules After Outdoor Aging and Accelerated Stress Testing. , 2020, , .		5
13	Highly Accelerated UV Stress Testing for Transparent Flexible Frontsheets. , 2020, , .		0
14	Towards Validation of Advanced Accelerated Stress Testing Protocols through Failure Analysis and Materials Characterization. , 2020, , .		1
15	Use of indentation to study the degradation of photovoltaic backsheets. Solar Energy Materials and Solar Cells, 2019, 201, 110082.	6.2	18
16	Combined and Sequential Accelerated Stress Testing for Derisking Photovoltaic Modules. , 2019, , 279-313.		15
17	Understanding PV Polymer Backsheet Degradation through X-ray Scattering. , 2019, , .		4
18	Correlation of advanced accelerated stress testing with polyamide-based photovoltaic backsheet field-failures. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
19	Reproducing the "Framing" by a Sequential Stress Test. , 2019, , .		2
20	Validation of Advanced Photovoltaic Module Materials and Processes by Combined-Accelerated Stress Testing (C-AST). , 2019, , .		6
21	Effects of Photovoltaic Module Materials and Design on Module Deformation Under Load. , 2019, , .		6
22	In-Situ Performance characterization of photovoltaic modules during combined-accelerated stress testing. , 2019, , .		2
23	Influence of Viscoelastic Properties of Encapsulation Materials on the Thermomechanical Behavior of Photovoltaic Modules. IEEE Journal of Photovoltaics, 2018, 8, 183-188.	2.5	11
24	Combined-Accelerated Stress Testing System for Photovoltaic Modules. , 2018, , .		23
25	Effect of viscoelasticity of ethylene vinyl acetate encapsulants on photovoltaic module solder joint degradation due to thermomechanical fatigue. Japanese Journal of Applied Physics, 2018, 57, 08RG03.	1.5	4