

# Dirk C Jordan

## List of Publications by Year in descending order

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54  
papers

2,803  
citations

430874

18  
h-index

395702

33  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2561  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photovoltaic Degradation Rates – an Analytical Review. Progress in Photovoltaics: Research and Applications, 2013, 21, 12-29.	8.1	942
2	Compendium of photovoltaic degradation rates. Progress in Photovoltaics: Research and Applications, 2016, 24, 978-989.	8.1	374
3	The 2020 photovoltaic technologies roadmap. Journal Physics D: Applied Physics, 2020, 53, 493001.	2.8	274
4	Photovoltaic failure and degradation modes. Progress in Photovoltaics: Research and Applications, 2017, 25, 318-326.	8.1	251
5	Robust PV Degradation Methodology and Application. IEEE Journal of Photovoltaics, 2018, 8, 525-531.	2.5	121
6	PV degradation curves: non-linearities and failure modes. Progress in Photovoltaics: Research and Applications, 2017, 25, 583-591.	8.1	109
7	Performance and Aging of a 20-Year-Old Silicon PV System. IEEE Journal of Photovoltaics, 2015, 5, 744-751.	2.5	59
8	The Dark Horse of Evaluating Long-Term Field Performance – Data Filtering. IEEE Journal of Photovoltaics, 2014, 4, 317-323.	2.5	58
9	Testing and Analysis for Lifetime Prediction of Crystalline Silicon PV Modules Undergoing Degradation by System Voltage Stress. IEEE Journal of Photovoltaics, 2013, 3, 246-253.	2.5	57
10	Silicon Heterojunction System Field Performance. IEEE Journal of Photovoltaics, 2018, 8, 177-182.	2.5	53
11	PV field reliability status – Analysis of 100 000 solar systems. Progress in Photovoltaics: Research and Applications, 2020, 28, 739-754.	8.1	49
12	Key parameters in determining energy generated by CPV modules. Progress in Photovoltaics: Research and Applications, 2015, 23, 1250-1259.	8.1	35
13	Analysis of the Long-Term Performance Degradation of Crystalline Silicon Photovoltaic Modules in Tropical Climates. IEEE Journal of Photovoltaics, 2019, 9, 266-271.	2.5	34
14	Photovoltaic Investment Risk and Uncertainty for Residential Customers. IEEE Journal of Photovoltaics, 2014, 4, 278-284.	2.5	29
15	International collaboration framework for the calculation of performance loss rates: Data quality, benchmarks, and trends (towards a uniform methodology). Progress in Photovoltaics: Research and Applications, 2021, 29, 573-602.	8.1	25
16	PV degradation methodology comparison – A basis for a standard. , 2016, , .		22
17	Reducing Interanalyst Variability in Photovoltaic Degradation Rate Assessments. IEEE Journal of Photovoltaics, 2020, 10, 206-212.	2.5	22
18	Build solar-energy systems to last – save billions. Nature, 2021, 600, 215-217.	27.8	21

#	ARTICLE	IF	CITATIONS
19	System-level performance and degradation of 21 GWDC of utility-scale PV plants in the United States. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, .	2.0	20
20	Fleet-Scale Energy-Yield Degradation Analysis Applied to Hundreds of Residential and Nonresidential Photovoltaic Systems. <i>IEEE Journal of Photovoltaics</i> , 2019, 9, 476-482.	2.5	19
21	Prediction of Climate-Specific Degradation Rate for Photovoltaic Encapsulant Discoloration. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 1093-1101.	2.5	18
22	Photovoltaic fleet degradation insights. <i>Progress in Photovoltaics: Research and Applications</i> , 2022, 30, 1166-1175.	8.1	18
23	Acceleration factor determination for potential-induced degradation in crystalline silicon PV modules. , 2013, , .		15
24	Signal Processing on PV Time-Series Data: Robust Degradation Analysis Without Physical Models. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 546-553.	2.5	14
25	Measuring degradation rates without irradiance data. , 2010, , .		13
26	Field Performance of 1.7 GW of Photovoltaic Systems. <i>IEEE Journal of Photovoltaics</i> , 2015, 5, 243-249.	2.5	13
27	A framework for a comparative accelerated testing standard for PV modules. , 2013, , .		12
28	Measuring degradation rates of PV systems without irradiance data. <i>Progress in Photovoltaics: Research and Applications</i> , 2014, 22, 851-862.	8.1	12
29	PV Degradation “ Mounting & Temperature. , 2019, , .		11
30	Nondestructive Characterization and Accelerated UV Testing of Brownd Field-Aged PV Modules. <i>IEEE Journal of Photovoltaics</i> , 2019, 9, 1733-1740.	2.5	10
31	Methodology to predict annual yield losses and gains caused by solar module design and materials under field exposure. <i>Solar Energy Materials and Solar Cells</i> , 2019, 202, 110069.	6.2	9
32	Numerical Validation of an Algorithm for Combined Soiling and Degradation Analysis of Photovoltaic Systems. , 2019, , .		8
33	Activation Energy for End-of-Life Solder Bond Degradation: Thermal Cycling of Field-Aged PV Modules. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 1762-1771.	2.5	8
34	Comparative study of the performance of field-aged photovoltaic modules located in a hot and humid environment. , 2012, , .		7
35	Performance characterization of cadmium telluride modules validated by utility-scale and test systems. , 2014, , .		7
36	Direct analysis of the current density vs. voltage curves of a CdTe module during outdoor exposure. <i>Solar Energy</i> , 2015, 113, 88-100.	6.1	7

#	ARTICLE	IF	CITATIONS
37	Activation Energy Determination for Photovoltaic Encapsulant Discoloration by Indoor Accelerated UV Testing. , 2018, , .		5
38	UV-Fluorescence Imaging of Silicon PV Modules After Outdoor Aging and Accelerated Stress Testing. , 2020, , .		5
39	Testing and analysis for lifetime prediction of crystalline silicon PV modules undergoing degradation by system voltage stress. , 2012, , .		4
40	Evaluation and modeling of the potential effects of a module manufacturing anomaly. Progress in Photovoltaics: Research and Applications, 2017, 25, 982-988.	8.1	4
41	Imaging Lateral Drift Kinetics to Understand Causes of Outdoor Degradation in Silicon Heterojunction Photovoltaic Modules. Solar Rrl, 2019, 3, 1900102.	5.8	4
42	Performance Index Assessment for the PV Fleet Performance Data Initiative. , 2021, , .		3
43	PV Fleet Performance Data Initiative Program and Methodology. , 2020, , .		3
44	Dynamic studies on the charging of spacers for high-voltage field-emission displays. Journal of the Society for Information Display, 2008, 16, 631.	2.1	2
45	PV system energy test. , 2014, , .		2
46	Activation Energy for Solder Bond Degradation: Thermal Cycling of Field-aged Modules at Multiple Upper Temperatures. , 2019, , .		2
47	Field-Aging Test Bed for Behind-the-Meter PV + Energy Storage. , 2019, , .		2
48	Local Resistance Measurement for Degradation of c-Si Heterojunction with Intrinsic Thin Layer (HIT) Solar Modules. , 2020, , .		2
49	Testing and analysis for lifetime prediction of crystalline silicon PV modules undergoing degradation by system voltage stress. , 2013, , .		1
50	Photovoltaic Module Imaging for Hail Damage Assessment with Multi-year Follow Up. , 2021, , .		1
51	On the Ambiguity of Using Isc for Analyzing Suns-Voc Data on Modules. , 2020, , .		1
52	Investigation of SHJ Module Degradation: A Post- Mortem Approach. , 2020, , .		1
53	Long-Term Degradation of Passivated Emitter and Rear Contact Silicon Solar Cell under Light and Heat. Solar Rrl, 2022, 6, 2100727.	5.8	1
54	Direct analysis of the current-voltage curves of outdoor-degrading modules. , 2014, , .		0