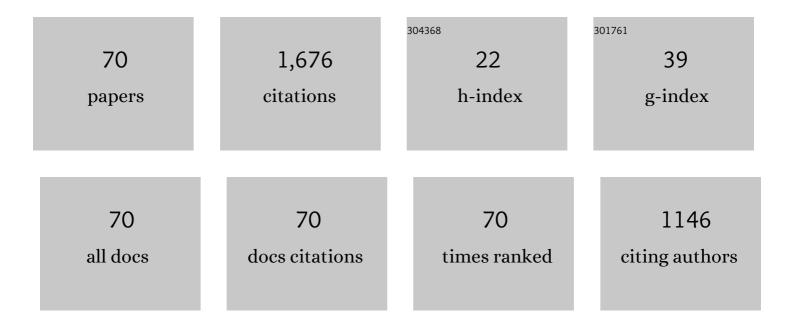
Gernot Oreski

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Determining the degree of crosslinking of ethylene vinyl acetate photovoltaic module encapsulants—A comparative study. Solar Energy Materials and Solar Cells, 2013, 116, 203-218.	3.0	174
2	Review of degradation and failure phenomena in photovoltaic modules. Renewable and Sustainable Energy Reviews, 2022, 159, 112160.	8.2	166
3	Relation between degradation of polymeric components in crystalline silicon PV module and climatic conditions: A literature review. Solar Energy Materials and Solar Cells, 2019, 192, 123-133.	3.0	160
4	Aging mechanisms of polymeric films for PV encapsulation. Solar Energy, 2005, 79, 612-617.	2.9	153
5	Evaluation of the aging behavior of ethylene copolymer films for solar applications under accelerated weathering conditions. Solar Energy, 2009, 83, 1040-1047.	2.9	69
6	Properties and degradation behaviour of polyolefin encapsulants for photovoltaic modules. Progress in Photovoltaics: Research and Applications, 2020, 28, 1277-1288.	4.4	61
7	Delamination behaviour of multi-layer films for PV encapsulation. Solar Energy Materials and Solar Cells, 2005, 89, 139-151.	3.0	60
8	Error analysis of aged modules with cracked polyamide backsheets. Solar Energy Materials and Solar Cells, 2019, 203, 110194.	3.0	59
9	Correlation of the loss in photovoltaic module performance with the ageing behaviour of the backsheets used. Progress in Photovoltaics: Research and Applications, 2015, 23, 1501-1515.	4.4	53
10	Comparison of different microclimate effects on the aging behavior of encapsulation materials used in photovoltaic modules. Polymer Degradation and Stability, 2017, 138, 182-191.	2.7	50
11	Crosslinking and postâ€crosslinking of ethylene vinyl acetate in photovoltaic modules. Journal of Applied Polymer Science, 2017, 134, .	1.3	43
12	Degradation of photovoltaic backsheets: Comparison of the aging induced changes on module and component level. Journal of Applied Polymer Science, 2015, 132, .	1.3	38
13	Ageing characterization of commercial ethylene copolymer greenhouse films by analytical and mechanical methods. Biosystems Engineering, 2009, 103, 489-496.	1.9	34
14	Performance of PV modules using co-extruded backsheets based on polypropylene. Solar Energy Materials and Solar Cells, 2021, 223, 110976.	3.0	32
15	Acetic acid permeation through photovoltaic backsheets: Influence of the composition on the permeation rate. Polymer Testing, 2017, 60, 374-380.	2.3	30
16	UV-mediated thiol-ene click reactions for the synthesis of drug-loadable and degradable gels based on copoly(2-oxazoline)s. European Polymer Journal, 2017, 88, 701-712.	2.6	28
17	Influence of surface roughness and surface moisture of plastics on sensor-based sorting in the near infrared range. Waste Management and Research, 2019, 37, 843-850.	2.2	28
18	Comparison of Degradation Behavior of Newly Developed Encapsulation Materials for Photovoltaic Applications under Different Artificial Ageing Tests. Polymers, 2021, 13, 271.	2.0	26

GERNOT ORESKI

#	Article	IF	CITATIONS
19	Review of technology specific degradation in crystalline silicon, cadmium telluride, copper indium gallium selenide, dye sensitised, organic and perovskite solar cells in photovoltaic modules: Understanding how reliability improvements in mature technologies can enhance emerging technologies. Progress in Photovoltaics: Research and Applications, 2022, 30, 1365-1392.	4.4	26
20	Thermal expansion behavior of solar cell encapsulation materials. Polymer Testing, 2015, 44, 160-167.	2.3	23
21	In-line determination of the degree of crosslinking of ethylene vinyl acetate in PV modules by Raman spectroscopy. Solar Energy Materials and Solar Cells, 2016, 152, 10-20.	3.0	23
22	Increased reliability of modified polyolefin backsheet over commonly used polyester backsheets for crystalline PV modules. Journal of Applied Polymer Science, 2020, 137, 48899.	1.3	23
23	Repair options for PV modules with cracked backsheets. Energy Science and Engineering, 2021, 9, 1583-1595.	1.9	20
24	Determination of solar optical properties of transparent polymer films using UV/vis spectroscopy. Solar Energy Materials and Solar Cells, 2010, 94, 884-891.	3.0	19
25	Effect of Backsheet Properties on PV Encapsulant Degradation during Combined Accelerated Aging Tests. Sustainability, 2020, 12, 5208.	1.6	19
26	Comprehensive investigation of the viscoelastic properties of PMMA by nanoindentation. Polymer Testing, 2021, 93, 106978.	2.3	19
27	Thermo-mechanical characterisation of fluoropolymer films for concentrated solar thermal applications. Solar Energy Materials and Solar Cells, 2014, 130, 615-622.	3.0	16
28	Determination of the degree of ethylene vinyl acetate crosslinking via Soxhlet extraction: Gold standard or pitfall?. Solar Energy Materials and Solar Cells, 2015, 143, 494-502.	3.0	16
29	High-performance thermoset with 100 % bio-based carbon content. Polymer Degradation and Stability, 2020, 181, 109284.	2.7	15
30	Curing of epoxidized linseed oil: Investigation of the curing reaction with different hardener types. Journal of Applied Polymer Science, 2021, 138, 50239.	1.3	15
31	Method to characterize the damping behavior of thin passively constrained layer laminates using dynamic mechanical analysis (DMA) in shear mode. Polymer Testing, 2015, 42, 215-224.	2.3	14
32	Correlation study of damp heat and pressure cooker testing on backsheets. Journal of Applied Polymer Science, 2016, 133, .	1.3	14
33	Motivation, benefits, and challenges for new photovoltaic material & module developments. Progress in Energy, 2022, 4, 032003.	4.6	14
34	Damp heat induced physical aging of PV encapsulation materials. , 2010, , .		13
35	Influence of reflective materials, emitter intensity and foil thickness on the variability of near-infrared spectra of 2D plastic packaging materials. Waste Management, 2022, 144, 543-551.	3.7	12

GERNOT ORESKI

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37	Development of Methods to Determine the Infraredâ€Optical Properties of Polymer Films. Macromolecular Symposia, 2008, 265, 124-133.	0.4	9
38	A Dual-Transport Model of Moisture Diffusion in PV Encapsulants for Finite-Element Simulations. IEEE Journal of Photovoltaics, 2020, 10, 94-102.	1.5	9
39	Non-destructive monitoring of ethylene vinyl acetate crosslinking in PV-modules by luminescence spectroscopy. Journal of Polymer Research, 2017, 24, 1.	1.2	8
40	Applicability of technical biopolymers as absorber materials in solar thermal collectors. Solar Energy, 2017, 153, 276-288.	2.9	7
41	The Influence of the EVA Film Aging on the Degradation Behavior of PV Modules Under High Voltage Bias in Wet Conditions Followed by Electroluminescence. IEEE Journal of Photovoltaics, 2019, 9, 259-265.	1.5	7
42	Morphological characterization of semi-crystalline POM using nanoindentation. International Journal of Polymer Analysis and Characterization, 2021, 26, 692-706.	0.9	7
43	Structure–infrared optical property-correlations of polar ethylene copolymer films for solar applications. Solar Energy Materials and Solar Cells, 2006, 90, 1208-1219.	3.0	6
44	High-performance composite with 100% bio-based carbon content produced from epoxidized linseed oil, citric acid and flax fiber reinforcement. Composites Part A: Applied Science and Manufacturing, 2022, 152, 106666.	3.8	6
45	How to accelerate natural weathering of polymeric photovoltaic backsheets – A comparison with standardized artificial aging. Solar Energy Materials and Solar Cells, 2022, 244, 111819.	3.0	4
46	Structure-Infrared Optical Property-Correlations of C,O,H-Polymers for Transparent Insulation and Greenhouse Applications. Monatshefte Für Chemie, 2006, 137, 899-910.	0.9	3
47	Qualification of polymeric components for use in PV modules. Proceedings of SPIE, 2011, , .	0.8	3
48	Introducing â€~PEARL-PV': Performance and Reliability of Photovoltaic Systems: Evaluations of Large-Scale Monitoring Data. , 2018, , .		3
49	Photovoltaic Modules. , 2021, , .		3
50	Low temperature induced physical aging effects of backsheet materials. , 2021, , .		3
51	Nanoindentation for Fast Investigation of PET Film Degradation. Jom, 2022, 74, 2287-2294.	0.9	3
52	Assessment of Epoxy Functionalized Poly(dimethylsiloxane) Vitrimers Catalyzed with Covalently Attached Amines as Reversible Adhesives. Macromolecular Materials and Engineering, 2022, 307, .	1.7	3
53	Cross-linking characterization of polymers based on their optical dispersion utilizing a white-light interferometer. Proceedings of SPIE, 2015, , .	0.8	2
54	Optimum Chip-Tape Adhesion for Reliable Pickup Process. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 2057-2065.	1.4	2

GERNOT ORESKI

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55	Challenges in the industrial production of CZTS monograin solar cells. , 2017, , .		2
56	Development of a big data bank for PV monitoring data, analysis and simulation in COST Action â€~PEARL PV'. , 2019, , .		2
57	Nanoindentation Reveals Crosslinking Behavior of Solar Encapsulants—The Methodological Advantages over Bulk Methods. Polymers, 2021, 13, 3328.	2.0	2
58	Peeling of Flexible Laminates—Determination of Interlayer Adhesion of Backsheet Laminates Used for Photovoltaic Modules. Materials, 2022, 15, 3294.	1.3	2
59	Accelerated indoor durability testing of polymeric photovoltaic encapsulation materials. , 2010, , .		1
60	Repair of cracked polyamide backsheets. , 2021, , .		1
61	Light guidance film for bifacial photovoltaic modules. Renewable Energy, 2022, 181, 604-615.	4.3	1
62	Optical and thermal properties of PVB encapsulant polymer functionalized by down-shift technique with new synthetized quantum dots for photovoltaic application. , 2019, , .		1
63	Optical and thermal analysis of PVB encapsulant polymer functionalized with luminescent organic dyes. , 2018, , .		1
64	Characterization of the Damping Behavior of Thin Films With Dynamic Mechanic Analysis in Bending Mode. , 2014, , .		0
65	Detection and identification of foreign bodies in polymer parts for use in semiconductor manufacturing. , 2017, , .		0
66	Impurity detection in polymer parts for the semiconductor manufacturing industry. TM Technisches Messen, 2018, 85, 700-712.	0.3	0
67	Training the Next Generation of PV Reliability Experts (Photovoltaic Life Time Forecast and Evaluation) – The Marie Sklodowska-Curie Actions (MSCA) Project SOLAR-TRAIN. , 2018, , .		Ο
68	Optical and Thermal Analysis of PVB Encapsulant Polymer Functionalized with Luminescent Organic Dye as Emerging Material for Photovoltaic Application. , 2018, , .		0
69	Effects of artificial ageing tests on EVA degradation: influence of microclimate and methodology approach. , 2021, , .		Ο
70	In situ durability of EVA polymer encapsulant with optical analysis techniques for photovoltaic conversion applications. , 2019, , .		0