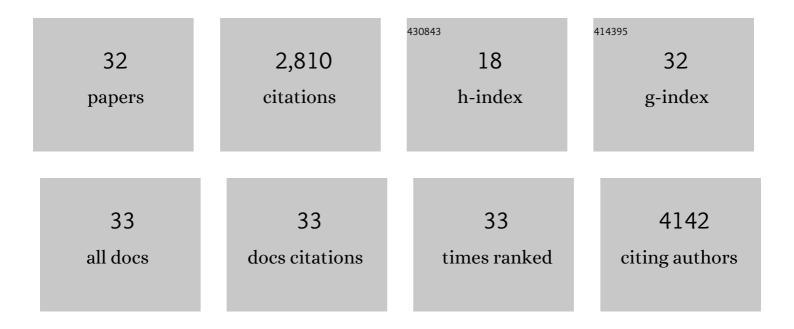
Jens Hauch

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9280686/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Solarâ€NIRT: Identification of PVâ€module backsheets in the field with natural sunlight. Progress in Photovoltaics: Research and Applications, 2022, 30, 851-858.	8.1	1
2	Distinguishing between different types of multiâ€layered PETâ€based backsheets of PV modules with nearâ€infrared spectroscopy. Progress in Photovoltaics: Research and Applications, 2022, 30, 859-868.	8.1	8
3	A bilayer conducting polymer structure for planar perovskite solar cells with over 1,400 hours operational stability at elevated temperatures. Nature Energy, 2022, 7, 144-152.	39.5	123
4	"Green―synthesis of highly luminescent lead-free Cs ₂ Ag _{<i>x</i>} Na _{1â^'<i>x</i>} Bi _{<i>y</i>} In _{1â^'<i>y</i> perovskites. Journal of Materials Chemistry C, 2022, 10, 9938-9944.}	Cl<	sub36
5	Device Performance of Emerging Photovoltaic Materials (Version 1). Advanced Energy Materials, 2021, 11, 2002774.	19.5	93
6	Elucidating the Full Potential of OPV Materials Utilizing a High-Throughput Robot-Based Platform and Machine Learning. Joule, 2021, 5, 495-506.	24.0	86
7	Discovery of temperature-induced stability reversal in perovskites using high-throughput robotic learning. Nature Communications, 2021, 12, 2191.	12.8	77
8	Building process design rules for microstructure control in wide-bandgap mixed halide perovskite solar cells by a high-throughput approach. Applied Physics Letters, 2021, 118, .	3.3	8
9	Computer vision tool for detection, mapping, and fault classification of photovoltaics modules in aerial IR videos. Progress in Photovoltaics: Research and Applications, 2021, 29, 1236-1251.	8.1	39
10	Understanding the Microstructure Formation of Polymer Films by Spontaneous Solution Spreading Coating with a Highâ€Throughput Engineering Platform. ChemSusChem, 2021, 14, 3590-3598.	6.8	14
11	Highâ€Throughput Robotic Synthesis and Photoluminescence Characterization of Aqueous Multinary Copper–Silver Indium Chalcogenide Quantum Dots. Particle and Particle Systems Characterization, 2021, 38, 2100169.	2.3	12
12	Device Performance of Emerging Photovoltaic Materials (Version 2). Advanced Energy Materials, 2021, 11, .	19.5	66
13	Material Strategies to Accelerate OPV Technology Toward a GW Technology. Advanced Energy Materials, 2020, 10, 2001864.	19.5	93
14	Robot-Based High-Throughput Screening of Antisolvents for Lead Halide Perovskites. Joule, 2020, 4, 1806-1822.	24.0	65
15	Nondestructive characterization of polymeric components of silicon solar modules by near-infrared absorption spectroscopy (NIRA). Solar Energy Materials and Solar Cells, 2020, 216, 110702.	6.2	14
16	Standardization as an Instrument to Accelerate the Development of Stable Emerging Photovoltaic Technologies—The IEC TS 62876â€2â€1:2018—Technical Specification for the Stability Testing of Photovoltaic Devices Enabled by Nanomaterials. Energy Technology, 2020, 8, 2000487.	3.8	3
17	The Impact of COVID-19-Related Measures on the Solar Resource in Areas with High Levels of Air Pollution. Joule, 2020, 4, 1681-1687.	24.0	17
18	Beyond Ternary OPV: Highâ€Throughput Experimentation and Selfâ€Driving Laboratories Optimize Multicomponent Systems. Advanced Materials, 2020, 32, e1907801.	21.0	138

Jens Hauch

#	Article	IF	CITATIONS
19	Film Fabrication Techniques: Beyond Ternary OPV: Highâ€Throughput Experimentation and Selfâ€Driving Laboratories Optimize Multicomponent Systems (Adv. Mater. 14/2020). Advanced Materials, 2020, 32, 2070110.	21.0	2
20	Quantitative assessment of the power loss of silicon PV modules by IR thermography and its dependence on dataâ€filtering criteria. Progress in Photovoltaics: Research and Applications, 2019, 27, 856-868.	8.1	18
21	Site-specific assessment of mechanical loads on photovoltaic modules from meteorological reanalysis data. Solar Energy, 2019, 188, 1134-1145.	6.1	6
22	Evolution of cell cracks in <scp>PV</scp> â€modules under field and laboratory conditions. Progress in Photovoltaics: Research and Applications, 2018, 26, 261-272.	8.1	42
23	Verifying defective <scp>PV</scp> â€modules by <scp>IR</scp> â€imaging and controlling with module optimizers. Progress in Photovoltaics: Research and Applications, 2018, 26, 622-630.	8.1	16
24	Comparison of Drone-based IR-imaging with Module Resolved Monitoring Power Data. Energy Procedia, 2017, 124, 560-566.	1.8	19
25	Analysis of inhomogeneous local distribution of potential induced degradation at a rooftop photovoltaic installation. IET Renewable Power Generation, 2017, 11, 1253-1260.	3.1	9
26	The Effect of Ageing on Exciton Dynamics, Charge Separation, and Recombination in P3HT/PCBM Photovoltaic Blends. Advanced Functional Materials, 2012, 22, 1461-1469.	14.9	44
27	Photodegradation of P3HTâ^A Systematic Study of Environmental Factors. Chemistry of Materials, 2011, 23, 145-154.	6.7	206
28	Consensus stability testing protocols for organic photovoltaic materials and devices. Solar Energy Materials and Solar Cells, 2011, 95, 1253-1267.	6.2	812
29	Reversible and irreversible degradation of organic solar cell performance by oxygen. Solar Energy, 2011, 85, 1238-1249.	6.1	174
30	Nanomorphology and Charge Generation in Bulk Heterojunctions Based on Lowâ€Bandgap Dithiophene Polymers with Different Bridging Atoms. Advanced Functional Materials, 2010, 20, 1180-1188.	14.9	173
31	Fabrication, Optical Modeling, and Color Characterization of Semitransparent Bulkâ€Heterojunction Organic Solar Cells in an Inverted Structure. Advanced Functional Materials, 2010, 20, 1592-1598.	14.9	182
32	Simulation of light intensity dependent current characteristics of polymer solar cells. Journal of Applied Physics, 2004, 95, 2816-2819.	2.5	237