

Markus Häjssel

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

6,877
citations

109321

35
h-index

214800

47
g-index

50
all docs

50
docs citations

50
times ranked

7660
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving, characterizing and predicting the lifetime of organic photovoltaics. Journal Physics D: Applied Physics, 2017, 50, 103001.	2.8	48
2	Overcoming the Scaling Lag for Polymer Solar Cells. Joule, 2017, 1, 274-289.	24.0	100
3	Which Electrode Materials to Select for More Environmentally Friendly Organic Photovoltaics?. Advanced Engineering Materials, 2016, 18, 490-495.	3.5	18
4	The Organic Power Transistor: Roll-to-Roll Manufacture, Thermal Behavior, and Power Handling When Driving Printed Electronics. Advanced Engineering Materials, 2016, 18, 51-55.	3.5	35
5	Baselines for Lifetime of Organic Solar Cells. Advanced Energy Materials, 2016, 6, 1600910.	19.5	42
6	Lifetime of Organic Photovoltaics: Status and Predictions. Advanced Energy Materials, 2016, 6, 1501208.	19.5	119
7	Portable and wireless IV-curve tracer for >5kV organic photovoltaic modules. Solar Energy Materials and Solar Cells, 2016, 151, 60-65.	6.2	21
8	In-situ, long-term operational stability of organic photovoltaics for off-grid applications in Africa. Solar Energy Materials and Solar Cells, 2016, 149, 284-293.	6.2	51
9	Scalable single point power extraction for compact mobile and stand-alone solar harvesting power sources based on fully printed organic photovoltaic modules and efficient high voltage DC/DC conversion. Solar Energy Materials and Solar Cells, 2016, 144, 48-54.	6.2	23
10	Development of Lab-to-Fab Production Equipment Across Several Length Scales for Printed Energy Technologies, Including Solar Cells. Energy Technology, 2015, 3, 293-304.	3.8	64
11	The Solar Textile Challenge: How It Will Not Work and Where It Might. ChemSusChem, 2015, 8, 966-969.	6.8	18
12	Development and Manufacture of Polymer-Based Electrochromic Devices. Advanced Functional Materials, 2015, 25, 2073-2090.	14.9	232
13	High-Volume Processed, ITO-Free Superstrates and Substrates for Roll-to-Roll Development of Organic Electronics. Advanced Science, 2014, 1, 1400002.	11.2	69
14	Outdoor Operational Stability of Indium-Free Flexible Polymer Solar Modules Over 1 Year Studied in India, Holland, and Denmark. Advanced Engineering Materials, 2014, 16, 976-987.	3.5	46
15	Fast Switching ITO Free Electrochromic Devices. Advanced Functional Materials, 2014, 24, 1228-1233.	14.9	102
16	Digital grayscale printing for patterned transparent conducting Ag electrodes and their applications in flexible electronics. Journal of Materials Chemistry C, 2014, 2, 2112.	5.5	15
17	Solution processed large area fabrication of Ag patterns as electrodes for flexible heaters, electrochromics and organic solar cells. Journal of Materials Chemistry A, 2014, 2, 10930.	10.3	73
18	25th Anniversary Article: Rise to Power – OPV-Based Solar Parks. Advanced Materials, 2014, 26, 29-39.	21.0	739

#	ARTICLE	IF	CITATIONS
19	A rational method for developing and testing stable flexible indium- and vacuum-free multilayer tandem polymer solar cells comprising up to twelve roll processed layers. Solar Energy Materials and Solar Cells, 2014, 120, 735-743.	6.2	72
20	Failure Modes and Fast Repair Procedures in High Voltage Organic Solar Cell Installations. Advanced Energy Materials, 2014, 4, 1301625.	19.5	22
21	Large scale deployment of polymer solar cells on land, on sea and in the air. Energy and Environmental Science, 2014, 7, 855.	30.8	167
22	Cost analysis of roll-to-roll fabricated ITO free single and tandem organic solar modules based on data from manufacture. Energy and Environmental Science, 2014, 7, 2792.	30.8	170
23	Scalable, ambient atmosphere roll-to-roll manufacture of encapsulated large area, flexible organic tandem solar cell modules. Energy and Environmental Science, 2014, 7, 2925.	30.8	255
24	Carbon: The Ultimate Electrode Choice for Widely Distributed Polymer Solar Cells. Advanced Energy Materials, 2014, 4, 1400732.	19.5	36
25	Comparison of UV-Curing, Hotmelt, and Pressure Sensitive Adhesive as Roll-to-Roll Encapsulation Methods for Polymer Solar Cells. Advanced Engineering Materials, 2013, 15, 1068-1075.	3.5	86
26	Freely available OPV – The fast way to progress. Energy Technology, 2013, 1, 378-381.	3.8	122
27	Roll-to-Roll fabrication of large area functional organic materials. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 16-34.	2.1	890
28	Fast Inline Roll-to-Roll Printing for Indium-Tin-Oxide-Free Polymer Solar Cells Using Automatic Registration. Energy Technology, 2013, 1, 102-107.	3.8	212
29	It is all in the Pattern – High Efficiency Power Extraction from Polymer Solar Cells through High Voltage Serial Connection. Energy Technology, 2013, 1, 15-19.	3.8	85
30	Fast printing of thin, large area, ITO free electrochromics on flexible barrier foil. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 132-136.	2.1	43
31	A round robin study of polymer solar cells and small modules across China. Solar Energy Materials and Solar Cells, 2013, 117, 382-389.	6.2	10
32	Scalability and stability of very thin, roll-to-roll processed, large area, indium-tin-oxide free polymer solar cell modules. Organic Electronics, 2013, 14, 984-994.	2.6	131
33	Comparison of Fast Roll-to-Roll Flexographic, Inkjet, Flatbed, and Rotary Screen Printing of Metal Back Electrodes for Polymer Solar Cells. Advanced Engineering Materials, 2013, 15, 995-1001.	3.5	42
34	OPV for mobile applications: an evaluation of roll-to-roll processed indium and silver free polymer solar cells through analysis of life cycle, cost and layer quality using inline optical and functional inspection tools. Journal of Materials Chemistry A, 2013, 1, 7037.	10.3	83
35	Practical evaluation of organic polymer thermoelectrics by large area R2R processing on flexible substrates. Energy Science and Engineering, 2013, 1, 81-88.	4.0	122
36	Combined characterization techniques to understand the stability of a variety of organic photovoltaic devices: the ISOS-3 inter-laboratory collaboration. , 2012, , .		3

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37	All solution processing of ITO-free organic solar cell modules directly on barrier foil. <i>Solar Energy Materials and Solar Cells</i> , 2012, 107, 329-336.	6.2	81
38	Silver front electrode grids for ITO-free all printed polymer solar cells with embedded and raised topographies, prepared by thermal imprint, flexographic and inkjet roll-to-roll processes. <i>Nanoscale</i> , 2012, 4, 6032.	5.6	222
39	On the stability of a variety of organic photovoltaic devices by IPCE and in situ IPCE analyses – the ISOS-3 inter-laboratory collaboration. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11824.	2.8	38
40	The ISOS-3 inter-laboratory collaboration focused on the stability of a variety of organic photovoltaic devices. <i>RSC Advances</i> , 2012, 2, 882-893.	3.6	108
41	Investigation of the degradation mechanisms of a variety of organic photovoltaic devices by combination of imaging techniques – the ISOS-3 inter-laboratory collaboration. <i>Energy and Environmental Science</i> , 2012, 5, 6521.	30.8	134
42	Stability and degradation of organic photovoltaics fabricated, aged, and characterized by the ISOS 3 inter-laboratory collaboration. , 2012, , .		2
43	Rapid flash annealing of thermally reactive copolymers in a roll-to-roll process for polymer solar cells. <i>Polymer Chemistry</i> , 2012, 3, 2649.	3.9	33
44	Large-scale roll-to-roll photonic sintering of flexo printed silver nanoparticle electrodes. <i>Journal of Materials Chemistry</i> , 2012, 22, 15683.	6.7	146
45	TOF-SIMS investigation of degradation pathways occurring in a variety of organic photovoltaic devices – the ISOS-3 inter-laboratory collaboration. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11780.	2.8	32
46	Solar cells with one-day energy payback for the factories of the future. <i>Energy and Environmental Science</i> , 2012, 5, 5117-5132.	30.8	454
47	Roll-to-roll fabrication of polymer solar cells. <i>Materials Today</i> , 2012, 15, 36-49.	14.2	1,254