Mikkel JÃ¸rgensen

List of Publications by Year
in descending order

61 papers	8,578 citations	87843 38 h-index	138417 58 g-index
63 all docs	63 docs citations	63 times ranked	10329 citing authors

#	Article	IF	Citations
1	The teraton challenge. A review of fixation and transformation of carbon dioxide. Energy and Environmental Science, 2010, 3, 43-81.	15.6	1,929
2	Stability of Polymer Solar Cells. Advanced Materials, 2012, 24, 580-612.	11.1	1,249
3	25th Anniversary Article: Rise to Power â€“ OPVâ€Based Solar Parks. Advanced Materials, 2014, 26, 29-39.	11.1	739
4	Product integration of compact roll-to-roll processed polymer solar cell modules: methods and manufacture using flexographic printing, slot-die coating and rotary screen printing. Journal of Materials Chemistry, 2010, 20, 8994.	6.7	591
5	Scalable, ambient atmosphere roll-to-roll manufacture of encapsulated large area, flexible organic tandem solar cell modules. Energy and Environmental Science, 2014, 7, 2925.	15.6	255
6	Photochemical stability of Ï€-conjugated polymers for polymer solar cells: a rule of thumb. Journal of Materials Chemistry, 2011, 21, 4132.	6.7	236
7	Rollâ€toâ€Roll Inkjet Printing and Photonic Sintering of Electrodes for ITO Free Polymer Solar Cell Modules and Facile Product Integration. Advanced Energy Materials, 2013, 3, 172-175.	10.2	223
8	Fabrication of Polymer Solar Cells Using Aqueous Processing for All Layers Including the Metal Back Electrode. Advanced Energy Materials, 2011, 1, 68-71.	10.2	221
9	Fast Inline Rollâ€toâ€Roll Printing for Indiumâ€Tinâ€Oxideâ€Free Polymer Solar Cells Using Automatic Registration. Energy Technology, 2013, 1, 102-107.	1.8	212
10	The OE-A OPV demonstrator anno domini 2011. Energy and Environmental Science, 2011, 4, 4116.	15.6	183
11	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.	15.6	170
12	Investigation of the degradation mechanisms of a variety of organic photovoltaic devices by combination of imaging techniquesâ€”the ISOS-3 inter-laboratory collaboration. Energy and Environmental Science, 2012, 5, 6521.	15.6	134
13	Low Band Gap Polymers for Roll-to-Roll Coated Polymer Solar Cells. Macromolecules, 2010, 43, 8115-8120.	2.2	130
14	Freely available OPVâ€”The fast way to progress. Energy Technology, 2013, 1, 378-381.	1.8	122
15	Practical evaluation of organic polymer thermoelectrics by largeâ€area R2R processing on flexible substrates. Energy Science and Engineering, 2013, 1, 81-88.	1.9	122
16	Lifetime of Organic Photovoltaics: Status and Predictions. Advanced Energy Materials, 2016, 6, 1501208.	10.2	119
17	Current Collecting Grids for ITOâ€Free Solar Cells. Advanced Energy Materials, 2012, 2, 103-110.	10.2	116
18	The ISOS-3 inter-laboratory collaboration focused on the stability of a variety of organic photovoltaic devices. RSC Advances, 2012, 2, 882-893.	1.7	108

#	Article	IF	Citations
19	Rollâ€toâ€Roll Printed Silver Nanowire Semitransparent Electrodes for Fully Ambient Solutionâ€Processed Tandem Polymer Solar Cells. Advanced Functional Materials, 2015, 25, 4539-4547.	7.8	97
20	All printed transparent electrodes through an electrical switching mechanism: A convincing alternative to indium-tin-oxide, silver and vacuum. Energy and Environmental Science, 2012, 5, 9467.	15.6	94
21	Roll-to-roll printed silver nanowires for increased stability of flexible ITO-free organic solar cell modules. Nanoscale, 2016, 8, 318-326.	2.8	90
22	Comparison of <scp>UV</scp>â€Curing, Hotmelt, and Pressure Sensitive Adhesive as Rollâ€toâ€<scp>R</scp>oll Encapsulation Methods for Polymer Solar Cells. Advanced Engineering Materials, 2013, 15, 1068-1075.	1.6	86
23	It is all in the Patternâ€"Highâ€Efficiency Power Extraction from Polymer Solar Cells through Highâ€Voltage Serial Connection. Energy Technology, 2013, 1, 15-19.	1.8	85
24	Roll-coating fabrication of flexible organic solar cells: comparison of fullerene and fullerene-free systems. Journal of Materials Chemistry A, 2016, 4, 1044-1051.	5.2	84
25	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.	5.2	83
26	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.	3.0	72
27	Roll-to-Roll Processing of Inverted Polymer Solar Cells using Hydrated Vanadium(V)Oxide as a PEDOT:PSS Replacement. Materials, 2011, 4, 169-182.	1.3	70
28	The Critical Choice of PEDOT:PSS Additives for Long Term Stability of Rollâ€toâ€Roll Processed OPVs. Advanced Energy Materials, 2015, 5, 1401912.	10.2	66
29	Making Ends Meet: Flow Synthesis as the Answer to Reproducible Highâ€Performance Conjugated Polymers on the Scale that Rollâ€toâ€Roll Processing Demands. Advanced Energy Materials, 2015, 5, 1401996.	10.2	55
30	New Lowâ€Bandgap Materials with Good Stabilities and Efficiencies Comparable to P3HT in R2Râ€Coated Solar Cells. Advanced Energy Materials, 2012, 2, 415-418.	10.2	52
31	Enabling Flexible Polymer Tandem Solar Cells by 3D Ptychographic Imaging. Advanced Energy Materials, 2015, 5, 1400736.	10.2	52
32	Efficient decommissioning and recycling of polymer solar cells: justification for use of silver. Energy and Environmental Science, 2014, 7, 1006-1012.	15.6	51
33	Matrix Organization and Merit Factor Evaluation as a Method to Address the Challenge of Finding a Polymer Material for Roll Coated Polymer Solar Cells. Advanced Energy Materials, 2015, 5, 1402186.	10.2	51
34	Comparative studies of photochemical cross-linking methods for stabilizing the bulk hetero-junction morphology in polymer solar cells. Journal of Materials Chemistry, 2012, 22, 24417.	6.7	49
35	Scaling Up ITOâ€Free Solar Cells. Advanced Energy Materials, 2014, 4, 1300498.	10.2	48
36	Roll-coating fabrication of flexible large area small molecule solar cells with power conversion efficiency exceeding 1%. Journal of Materials Chemistry A, 2014, 2, 19809-19814.	5.2	44

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37	A selfâ€calibrating ledâ€based solar test platform. Progress in Photovoltaics: Research and Applications, 2011, 19, 97-112.	4.4	43
38	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.	2.4	43
39	2D Characterization of OPV from Single and Tandem Cells to Fully Rollâ€toâ€Roll Processed Modules with and without Electrical Contact. Advanced Optical Materials, 2014, 2, 465-477.	3.6	39
40	Comparison of additive amount used in spin-coated and roll-coated organic solar cells. Journal of Materials Chemistry A, 2014, 2, 19542-19549.	5.2	36
41	Carbon: The Ultimate Electrode Choice for Widely Distributed Polymer Solar Cells. Advanced Energy Materials, 2014, 4, 1400732.	10.2	36
42	The Organic Power Transistor: Rollâ€toâ€Roll Manufacture, Thermal Behavior, and Power Handling When Driving Printed Electronics. Advanced Engineering Materials, 2016, 18, 51-55.	1.6	35
43	The influence of additives on the morphology and stability of roll-to-roll processed polymer solar cells studied through ex situ and in situ X-ray scattering. Journal of Materials Chemistry A, 2014, 2, 18644-18654.	5.2	34
44	Three dimensional corrugated organic photovoltaics for building integration; improving the efficiency, oblique angle and diffuse performance of solar cells. Energy and Environmental Science, 2015, 8, 3266-3273.	15.6	31
45	Influence of Side Chain Position on the Electrical Properties of Organic Solar Cells Based on Dithienylbenzothiadiazole-alt-phenylene Conjugated Polymers. Macromolecules, 2015, 48, 3481-3492.	2.2	29
46	Slotâ€Dieâ€Coated V₂O₅ as Hole Transport Layer for Flexible Organic Solar Cells and Optoelectronic Devices. Advanced Engineering Materials, 2016, 18, 1494-1503.	1.6	28
47	High-throughput roll-to-roll X-ray characterization of polymer solar cell active layers. Journal of Materials Chemistry, 2012, 22, 22501.	6.7	26
48	Advanced Functional Polymers for Increasing the Stability of Organic Photovoltaics. Macromolecular Chemistry and Physics, 2013, 214, 1546-1558.	1.1	23
49	Failure Modes and Fast Repair Procedures in High Voltage Organic Solar Cell Installations. Advanced Energy Materials, 2014, 4, 1301625.	10.2	22
50	Improving the Operational Stability of PBDTTTzâ€4 Polymer Solar Cells Modules by Electrode Modification. Advanced Engineering Materials, 2016, 18, 511-517.	1.6	17
51	Flow Synthesis of Silver Nanowires for Semitransparent Solar Cell Electrodes: A Life Cycle Perspective. ChemSusChem, 2016, 9, 893-899.	3.6	15
52	Low Band Gap Polymers for Roll-to-Roll Coated Organic Photovoltaics â€“ Design, Synthesis and Characterization. Green, 2011, 1, .	0.4	9
53	A Nanoparticle Approach towards Morphology Controlled Organic Photovoltaics (OPV). Polymers, 2012, 4, 1242-1258.	2.0	7
54	In situ electrical and thermal monitoring of printed electronics by two-photon mapping. Scientific Reports, 2017, 7, 3787.	1.6	5

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55	Non-destructive lateral mapping of the thickness of the photoactive layer in polymer-based solar cells. Progress in Photovoltaics: Research and Applications, 2011, 21, n/a-n/a.	4.4	3
56	Degradation of Polymer-Based OPV. , 0, , 143-162.		3
57	Organic Solar Cells: Current Collecting Grids for ITO-Free Solar Cells (Adv. Energy Mater. 1/2012). Advanced Energy Materials, 2012, 2, 169-169.	10.2	2
58	Light Beamâ€Induced Current: 2D Characterization of OPV from Single and Tandem Cells to Fully Rollâ€toâ€Roll Processed Modules with and without Electrical Contact (Advanced Optical Materials) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.6	1
59	Developing a molecular platform for potential carbon dioxide fixing. Frontiers of Chemical Engineering in China, 2010, 4, 236-239.	0.6	0
60	Roll-to-Roll Coatings: New Low-Bandgap Materials with Good Stabilities and Efficiencies Comparable to P3HT in R2R-Coated Solar Cells (Adv. Energy Mater. 4/2012). Advanced Energy Materials, 2012, 2, 394-394.	10.2	0
61	X-Ray Nanovision: Enabling Flexible Polymer Tandem Solar Cells by 3D Ptychographic Imaging (Adv.) Tj ETQq1 1 0.784314 rgBT /Overl	10.2	0