Roar R SÃ¸ndergaard

List of Publications by Year
in descending order

36 papers	3,626 citations	185998 28 h-index	344852 36 g-index
38 all docs	38 docs citations	38 times ranked	5158 citing authors

#	Article	IF	Citations
1	Scalable fabrication of organic solar cells based on non-fullerene acceptors. Flexible and Printed Electronics, 2020, 5, 014004.	1.5	68
2	Overcoming the Scaling Lag for Polymer Solar Cells. Joule, 2017, 1, 274-289.	11.7	100
3	Flow Synthesis of Silver Nanowires for Semitransparent Solar Cell Electrodes: A Life Cycle Perspective. ChemSusChem, 2016, 9, 893-899.	3.6	15
4	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
5	Improving the Operational Stability of PBDTTTzâ€4 Polymer Solar Cells Modules by Electrode Modification. Advanced Engineering Materials, 2016, 18, 511-517.	1.6	17
6	Lifetime of Organic Photovoltaics: Status and Predictions. Advanced Energy Materials, 2016, 6, 1501208.	10.2	119
7	Incineration of organic solar cells: efficient end of life management by quantitative silver recovery. Energy and Environmental Science, 2016, 9, 857-861.	15.6	14
8	Mechanical Properties of a Library of Low-Band-Gap Polymers. Chemistry of Materials, 2016, 28, 2363-2373.	3.2	125
9	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
10	X-Ray Nanovision: Enabling Flexible Polymer Tandem Solar Cells by 3D Ptychographic Imaging (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	10.2	0
11	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
12	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
13	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
14	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
15	Roundâ€Robin Studies on Rollâ€Processed ITOâ€free Organic Tandem Solar Cells Combined with Interâ€Laboratory Stability Studies. Energy Technology, 2015, 3, 423-427.	1.8	7
16	Enabling Flexible Polymer Tandem Solar Cells by 3D Ptychographic Imaging. Advanced Energy Materials, 2015, 5, 1400736.	10.2	52
17	Efficient decommissioning and recycling of polymer solar cells: justification for use of silver. Energy and Environmental Science, 2014, 7, 1006-1012.	15.6	51
18	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

#	Article	IF	Citations
19	Failure Modes and Fast Repair Procedures in High Voltage Organic Solar Cell Installations. Advanced Energy Materials, 2014, 4, 1301625.	10.2	22
20	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
21	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
22	Carbon: The Ultimate Electrode Choice for Widely Distributed Polymer Solar Cells. Advanced Energy Materials, 2014, 4, 1400732.	10.2	36
23	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
24	Freely available OPVâ€”The fast way to progress. Energy Technology, 2013, 1, 378-381.	1.8	122
25	Rollâ€toâ€Roll fabrication of large area functional organic materials. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 16-34.	2.4	890
26	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
27	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
28	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
29	A round robin study of polymer solar cells and small modules across China. Solar Energy Materials and Solar Cells, 2013, 117, 382-389.	3.0	10
30	All polymer photovoltaics: From small inverted devices to large roll-to-roll coated and printed solar cells. Solar Energy Materials and Solar Cells, 2013, 112, 157-162.	3.0	80
31	Comparison of Fast Rollâ€toâ€<scp>R</scp>oll Flexographic, Inkjet, Flatbed, and Rotary Screen Printing of Metal Back Electrodes for Polymer Solar Cells. Advanced Engineering Materials, 2013, 15, 995-1001.	1.6	42
32	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
33	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
34	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
35	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
36	Lowâ€temperature sideâ€chain cleavage and decarboxylation of polythiophene esters by acid catalysis. Journal of Polymer Science Part A, 2012, 50, 1127-1132.	2.5	14