Dechan Angmo

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9110089/publications.pdf

Version: 2024-02-01

50 papers	5,357 citations	136950 32 h-index	214800 47 g-index
54 all docs	54 docs citations	54 times ranked	7050 citing authors

#	Article	IF	Citations
1	Fully Roll-to-Roll Processed Efficient Perovskite Solar Cells via Precise Control on the Morphology of PbI2:CsI Layer. Nano-Micro Letters, 2022, 14, 79.	27.0	21
2	Millimeterâ€Sized Clusters of Triple Cation Perovskite Enables Highly Efficient and Reproducible Rollâ€toâ€Roll Fabricated Inverted Perovskite Solar Cells. Advanced Functional Materials, 2022, 32, .	14.9	36
3	Brownian Treeâ€Shaped Dendrites in Quasiâ€2D Perovskite Films and Their Impact on Photovoltaic Performance (Adv. Mater. Interfaces 13/2022). Advanced Materials Interfaces, 2022, 9, .	3.7	0
4	A Lab-to-Fab Study toward Roll-to-Roll Fabrication of Reproducible Perovskite Solar Cells under Ambient Room Conditions. Cell Reports Physical Science, 2021, 2, 100293.	5.6	39
5	A sandwich-like structural model revealed for quasi-2D perovskite films. Journal of Materials Chemistry C, 2021, 9, 5362-5372.	5.5	14
6	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges. Advanced Energy Materials, 2021, 11, .	19.5	40
7	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock 1	19.5	2
8	Recent progress towards roll-to-roll manufacturing of perovskite solar cells using slot-die processing. Flexible and Printed Electronics, 2020, 5, 014006.	2.7	37
9	Crystallisation control of drop-cast quasi-2D/3D perovskite layers for efficient solar cells. Communications Materials, 2020, 1, .	6.9	66
10	Improving the Stability of Ambient Processed, SnO₂â€Based, Perovskite Solar Cells by the UVâ€Treatment of Subâ€Cells. Solar Rrl, 2020, 4, 2000262.	5.8	21
11	Controlling Homogenous Spherulitic Crystallization for Highâ€Efficiency Planar Perovskite Solar Cells Fabricated under Ambient Highâ€Humidity Conditions. Small, 2019, 15, e1904422.	10.0	30
12	Selfâ€Assembled 2D Perovskite Layers for Efficient Printable Solar Cells. Advanced Energy Materials, 2019, 9, 1803258.	19.5	149
13	One-step roll-to-roll air processed high efficiency perovskite solar cells. Nano Energy, 2018, 46, 185-192.	16.0	271
14	Beyond Fullerenes: Indacenodithiophene-Based Organic Charge-Transport Layer toward Upscaling of Low-Cost Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 22143-22155.	8.0	27
15	Printing-friendly sequential deposition via intra-additive approach for roll-to-roll process of perovskite solar cells. Nano Energy, 2017, 41, 443-451.	16.0	91
16	Perovskite and Organic Solar Cells Fabricated by Inkjet Printing: Progress and Prospects. Advanced Functional Materials, 2017, 27, 1703704.	14.9	149
17	Comparative Indoor and Outdoor Degradation of Organic Photovoltaic Cells via Inter-laboratory Collaboration. Polymers, 2016, 8, 1.	4.5	285
18	Roll coated large area ITO- and vacuum-free all organic solar cells from diketopyrrolopyrrole based non-fullerene acceptors with molecular geometry effects. RSC Advances, 2016, 6, 41542-41550.	3.6	13

#	Article	IF	Citations
19	Novel high band gap pendant-borylated carbazole polymers with deep HOMO levels through direct +Nî€Bâ^' interaction for organic photovoltaics. Journal of Materials Chemistry C, 2016, 4, 4393-4401.	5.5	6
20	Upscaling of Perovskite Solar Cells: Fully Ambient Roll Processing of Flexible Perovskite Solar Cells with Printed Back Electrodes. Advanced Energy Materials, 2015, 5, 1500569.	19.5	285
21	Rollâ€toâ€Roll Printed Silver Nanowire Semitransparent Electrodes for Fully Ambient Solutionâ€Processed Tandem Polymer Solar Cells. Advanced Functional Materials, 2015, 25, 4539-4547.	14.9	97
22	Over 2â€...Years of Outdoor Operational and Storage Stability of ITOâ€Free, Fully Rollâ€toâ€Roll Fabricated Polymer Solar Cell Modules. Energy Technology, 2015, 3, 774-783.	3.8	61
23	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.	4.8	29
24	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.	19.5	51
25	Improving organic tandem solar cells based on water-processed nanoparticles by quantitative 3D nanoimaging. Nanoscale, 2015, 7, 13765-13774.	5.6	30
26	Fullerene alloy formation and the benefits for efficient printing of ternary blend organic solar cells. Journal of Materials Chemistry C, 2015, 3, 5541-5548.	5.5	40
27	Allâ€Solutionâ€Processed, Ambient Method for ITOâ€Free, Rollâ€Coated Tandem Polymer Solar Cells using Solutionâ€Processed Metal Films. Energy Technology, 2014, 2, 651-659.	3.8	24
28	Highâ€Volume Processed, ITOâ€Free Superstrates and Substrates for Rollâ€toâ€Roll Development of Organic Electronics. Advanced Science, 2014, 1, 1400002.	11.2	69
29	Outdoor Operational Stability of Indiumâ€Free Flexible Polymer Solar Modules Over 1 Year Studied in India, Holland, and Denmark. Advanced Engineering Materials, 2014, 16, 976-987.	3.5	46
30	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
31	Medium area, flexible single and tandem junction solar cells based on roll coated semi-random copolymers. Journal of Materials Chemistry C, 2014, 2, 9412-9415.	5.5	11
32	Indium Tin Oxide-Free Polymer Solar Cells: Toward Commercial Reality. Green Energy and Technology, 2014, , 189-225.	0.6	4
33	Lowâ€cost upscaling compatibility of five different ITOâ€free architectures for polymer solar cells. Journal of Applied Polymer Science, 2013, 130, 944-954.	2.6	29
34	Comparison of two types of vertically aligned ZnO NRs for highly efficient polymer solar cells. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 272-280.	2.1	15
35	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
36	Flexible ITOâ€free polymer solar cells. Journal of Applied Polymer Science, 2013, 129, 1-14.	2.6	159

#	Article	IF	Citations
37	Inkjet Printing of Back Electrodes for Inverted Polymer Solar Cells. Advanced Energy Materials, 2013, 3, 1230-1237.	19.5	56
38	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.	3.5	42
39	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
40	Organic solar cells (OSCs). , 2013, , 473-507.		14
41	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.	19.5	223
42	All solution processing of ITO-free organic solar cell modules directly on barrier foil. Solar Energy Materials and Solar Cells, 2012, 107, 329-336.	6.2	81
43	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. Nanoscale, 2012, 4, 6032.	5.6	222
44	Solar cells with one-day energy payback for the factories of the future. Energy and Environmental Science, 2012, 5, 5117-5132.	30.8	454
45	Roundâ€Robin Studies as a Method for Testing and Validating Highâ€Efficiency ITOâ€Free Polymer Solar Cells Based on Rollâ€toâ€Rollâ€Coated Highly Conductive and Transparent Flexible Substrates. Advanced Energy Materials, 2012, 2, 1091-1094.	19.5	46
46	Roll-to-roll fabrication of polymer solar cells. Materials Today, 2012, 15, 36-49.	14.2	1,254
47	Life cycle assessment of ITO-free flexible polymer solar cells prepared by roll-to-roll coating and printing. Solar Energy Materials and Solar Cells, 2012, 97, 3-13.	6.2	147
48	Ellipsometry as a Nondestructive Depth Profiling Tool for Roll-to-Roll Manufactured Flexible Solar Cells. Journal of Physical Chemistry C, 2011, 115, 10817-10822.	3.1	39
49	ITO-free flexible polymer solar cells: From small model devices to roll-to-roll processed large modules. Organic Electronics, 2011, 12, 566-574.	2.6	235
50	Brownian Treeâ€Shaped Dendrites in Quasiâ€2D Perovskite Films and Their Impact on Photovoltaic Performance. Advanced Materials Interfaces, 0, , 2102231.	3.7	4