William R Mateker

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10547941/publications.pdf

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16 papers	3,731 citations	516710 16 h-index	940533 16 g-index
16 all docs	16 docs citations	16 times ranked	4857 citing authors

#	Article	IF	Citations
1	Progress in Understanding Degradation Mechanisms and Improving Stability in Organic Photovoltaics. Advanced Materials, 2017, 29, 1603940.	21.0	319
2	Assessing the stability of high performance solution processed small molecule solar cells. Solar Energy Materials and Solar Cells, 2017, 161, 368-376.	6.2	31
3	Morphological and electrical control of fullerene dimerization determines organic photovoltaic stability. Energy and Environmental Science, 2016, 9, 247-256.	30.8	196
4	Disorderâ€Induced Openâ€Circuit Voltage Losses in Organic Solar Cells During Photoinduced Burnâ€In. Advanced Energy Materials, 2015, 5, 1500111.	19.5	146
5	Minimal Long-Term Intrinsic Degradation Observed in a Polymer Solar Cell Illuminated in an Oxygen-Free Environment. Chemistry of Materials, 2015, 27, 404-407.	6.7	84
6	Molecular Packing and Arrangement Govern the Photo-Oxidative Stability of Organic Photovoltaic Materials. Chemistry of Materials, 2015, 27, 6345-6353.	6.7	88
7	Controlling Solutionâ€Phase Polymer Aggregation with Molecular Weight and Solvent Additives to Optimize Polymerâ€Fullerene Bulk Heterojunction Solar Cells. Advanced Energy Materials, 2014, 4, 1301733.	19.5	194
8	Electron Barrier Formation at the Organicâ€Back Contact Interface is the First Step in Thermal Degradation of Polymer Solar Cells. Advanced Functional Materials, 2014, 24, 3978-3985.	14.9	98
9	Efficient charge generation by relaxed charge-transfer states at organic interfaces. Nature Materials, 2014, 13, 63-68.	27.5	667
10	Reducing burn-in voltage loss in polymer solar cells by increasing the polymer crystallinity. Energy and Environmental Science, 2014, 7, 2974-2980.	30.8	162
11	Improving the long-term stability of PBDTTPD polymer solar cells through material purification aimed at removing organic impurities. Energy and Environmental Science, 2013, 6, 2529.	30.8	98
12	The Importance of Fullerene Percolation in the Mixed Regions of Polymerâ€“Fullerene Bulk Heterojunction Solar Cells. Advanced Energy Materials, 2013, 3, 364-374.	19.5	412
13	Linear Side Chains in Benzo[1,2-b:4,5-bâ€²]dithiopheneâ€“Thieno[3,4-c]pyrrole-4,6-dione Polymers Direct Self-Assembly and Solar Cell Performance. Journal of the American Chemical Society, 2013, 135, 4656-4659.	13.7	661
14	Recombination in Polymer:Fullerene Solar Cells with Openâ€Circuit Voltages Approaching and Exceeding 1.0 V. Advanced Energy Materials, 2013, 3, 220-230.	19.5	212
15	The Role of Electron Affinity in Determining Whether Fullerenes Catalyze or Inhibit Photooxidation of Polymers for Solar Cells. Advanced Energy Materials, 2012, 2, 1351-1357.	19.5	134
16	The Mechanism of Burnâ€in Loss in a High Efficiency Polymer Solar Cell. Advanced Materials, 2012, 24, 663-668.	21.0	229