

William R Mateker

List of Publications by Year in descending order

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