

Moses Richter

List of Publications by Year in descending order

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17
papers

3,269
citations

516710

16
h-index

888059

17
g-index

17
all docs

17
docs citations

17
times ranked

6066
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of X-ray photons by solution-processed lead halide perovskites. <i>Nature Photonics</i> , 2015, 9, 444-449.	31.4	916
2	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. <i>Science</i> , 2017, 358, 1192-1197.	12.6	554
3	X-ray imaging with scintillator-sensitized hybrid organic photodetectors. <i>Nature Photonics</i> , 2015, 9, 843-848.	31.4	300
4	Abnormal strong burn-in degradation of highly efficient polymer solar cells caused by spinodal donor-acceptor demixing. <i>Nature Communications</i> , 2017, 8, 14541.	12.8	298
5	Spray-Coated Silver Nanowires as Top Electrode Layer in Semitransparent P3HT:PCBM-Based Organic Solar Cell Devices. <i>Advanced Functional Materials</i> , 2013, 23, 1711-1717.	14.9	216
6	Overcoming the Interface Losses in Planar Heterojunction Perovskite-Based Solar Cells. <i>Advanced Materials</i> , 2016, 28, 5112-5120.	21.0	188
7	Solution-Processed Metallic Nanowire Electrodes as Indium Tin Oxide Replacement for Thin-Film Solar Cells. <i>Advanced Functional Materials</i> , 2011, 21, 4784-4787.	14.9	170
8	Photoinduced degradation of methylammonium lead triiodide perovskite semiconductors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15896-15903.	10.3	119
9	Effects of Alkyl Terminal Chains on Morphology, Charge Generation, Transport, and Recombination Mechanisms in Solution-Processed Small Molecule Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1500386.	19.5	112
10	Polymer:Nonfullerene Bulk Heterojunction Solar Cells with Exceptionally Low Recombination Rates. <i>Advanced Energy Materials</i> , 2017, 7, 1701561.	19.5	76
11	High fill factor polymer solar cells comprising a transparent, low temperature solution processed doped metal oxide/metal nanowire composite electrode. <i>Solar Energy Materials and Solar Cells</i> , 2012, 107, 248-251.	6.2	75
12	Exploring the Limiting Open-Circuit Voltage and the Voltage Loss Mechanism in Planar CH ₃ NH ₃ PbBr ₃ Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600132.	19.5	71
13	Suppression of Hysteresis Effects in Organohalide Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700007.	3.7	57
14	Carbon Photodetectors: The Versatility of Carbon Allotropes. <i>Advanced Energy Materials</i> , 2017, 7, 1601574.	19.5	44
15	Relation of Nanostructure and Recombination Dynamics in a Low-Temperature Solution-Processed CuInS ₂ Nanocrystalline Solar Cell. <i>Advanced Energy Materials</i> , 2013, 3, 1589-1596.	19.5	38
16	Absence of Charge Transfer State Enables Very Low <i>V</i> _{OC} Losses in SWCNT:Fullerene Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1801913.	19.5	25
17	Charge transport in nanoparticulate thin films of zinc oxide and aluminum-doped zinc oxide. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1468-1472.	5.5	10