Harvey Guthrey

List of Publications by Year
in descending order

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19 papers	569 citations	759233 12 h-index	996975 15 g-index
19 all docs	19 docs citations	19 times ranked	1313 citing authors

#	Article	IF	Citations
1	Mechanisms of Electron-Beam-Induced Damage in Perovskite Thin Films Revealed by Cathodoluminescence Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 26904-26911.	3.1	153
2	Physics of grain boundaries in polycrystalline photovoltaic semiconductors. Journal of Applied Physics, 2015, 117, .	2.5	52
3	Sodium Accumulation at Potential-Induced Degradation Shunted Areas in Polycrystalline Silicon Modules. IEEE Journal of Photovoltaics, 2016, 6, 1440-1445.	2.5	48
4	Toward All-Solid-State Lithium Batteries: Three-Dimensional Visualization of Lithium Migration in Î²-Li₃PS₄ Ceramic Electrolyte. Journal of the Electrochemical Society, 2018, 165, A3732-A3737.	2.9	46
5	Understanding the charge transport mechanisms through ultrathin SiOx layers in passivated contacts for high-efficiency silicon solar cells. Applied Physics Letters, 2019, 114, .	3.3	41
6	Grain engineering: How nanoscale inhomogeneities can control charge collection in solar cells. Nano Energy, 2017, 32, 488-493.	16.0	40
7	Effect of Crystallographic Orientation and Nanoscale Surface Morphology on Poly-Si/SiO_x Contacts for Silicon Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 42021-42031.	8.0	29
8	Identification and analysis of partial shading breakdown sites in CuInxGa(1-x)Se2 modules. Solar Energy, 2018, 161, 1-5.	6.1	28
9	A Review and Perspective on Cathodoluminescence Analysis of Halide Perovskites. Advanced Energy Materials, 2020, 10, 1903840.	19.5	26
10	Luminescence methodology to determine grain-boundary, grain-interior, and surface recombination in thin-film solar cells. Journal of Applied Physics, 2018, 124, .	2.5	25
11	Effect of Surface Texture on Pinhole Formation in SiO_x-Based Passivated Contacts for High-Performance Silicon Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 55737-55745.	8.0	18
12	Latest developments in the x-ray based characterization of thin-film solar cells. , 2015, , .		15
13	Improved Stability and Cyclability of Ceramic Solid Electrolyte by Coating Polymer. Journal of the Electrochemical Society, 2020, 167, 020519.	2.9	13
14	Thin-Film Module Reverse-Bias Breakdown Sites Identified by Thermal Imaging. , 2018, , .		9
15	Measurement of poly-Si film thickness on textured surfaces by X-ray diffraction in poly-Si/SiO passivating contacts for monocrystalline Si solar cells. Solar Energy Materials and Solar Cells, 2022, 236, 111510.	6.2	9
16	Characterization and modeling of reverseâ€bias breakdown in Cu(In,Ga)Se₂ photovoltaic devices. Progress in Photovoltaics: Research and Applications, 2019, 27, 812-823.	8.1	8
17	Tunneling or Pinholes: Understanding the Transport Mechanisms in SiO<inf>x</inf> Based Passivated Contacts for High-Efficiency Silicon Solar Cells. , 2018, , .		7
18	The Effect of Ga Content on the Recombination Behavior of Grain Boundaries in Cu(In,Ga)Se2 Solar Cells. Materials Research Society Symposia Proceedings, 2014, 1670, 19.	0.1	1

#	Article	IF	Citations
19	Analytical (S)TEM Studies of Defects Associated with PID in Stressed Si PV Modules. , 2017, , .		1