## Reza Asadpour

List of Publications by Year in descending order

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REZA ASADDOLID

#	Article	IF	CITATIONS
1	High-efficiency solution-processed perovskite solar cells with millimeter-scale grains. Science, 2015, 347, 522-525.	12.6	2,978
2	High-efficiency two-dimensional Ruddlesden–Popper perovskite solar cells. Nature, 2016, 536, 312-316.	27.8	2,767
3	Light-induced lattice expansion leads to high-efficiency perovskite solar cells. Science, 2018, 360, 67-70.	12.6	554
4	Design principles for electronic charge transport in solution-processed vertically stacked 2D perovskite quantum wells. Nature Communications, 2018, 9, 2130.	12.8	153
5	Bifacial Si heterojunction-perovskite organic-inorganic tandem to produce highly efficient (ηT* <b>â^1⁄4</b> 33%) solar cell. Applied Physics Letters, 2015, 106, .	3.3	82
6	Ligand-Driven Grain Engineering of High Mobility Two-Dimensional Perovskite Thin-Film Transistors. Journal of the American Chemical Society, 2021, 143, 15215-15223.	13.7	55
7	Light-activated interlayer contraction in two-dimensional perovskites for high-efficiency solar cells. Nature Nanotechnology, 2022, 17, 45-52.	31.5	52
8	Electrical Signatures of Corrosion and Solder Bond Failure in c-Si Solar Cells and Modules. IEEE Journal of Photovoltaics, 2019, 9, 759-767.	2.5	39
9	Temperature-dependent energy gain of bifacial PV farms: A global perspective. Applied Energy, 2020, 276, 115405.	10.1	38
10	Modeling, design guidelines, and detection limits of self-powered enzymatic biofuel cell-based sensors. Biosensors and Bioelectronics, 2020, 168, 112493.	10.1	27
11	A review of next generation bifacial solar farms: predictive modeling of energy yield, economics, and reliability. Journal Physics D: Applied Physics, 2021, 54, 323001.	2.8	24
12	Dark Lock-in Thermography Identifies Solder Bond Failure as the Root Cause of Series Resistance Increase in Fielded Solar Modules. IEEE Journal of Photovoltaics, 2020, 10, 1409-1416.	2.5	15
13	Physics-Based computational modeling of moisture ingress in solar modules: Location-specific corrosion and delamination. , 2016, , .		7
14	A Physics-Based Analytical Model for Perovskite Solar Cells [Sep 15 1389-1394]. IEEE Journal of Photovoltaics, 2016, 6, 1390-1390.	2.5	5
15	Tailoring interdigitated back contacts for high-performance bifacial silicon solar cells. Applied Physics Letters, 2019, 114, .	3.3	5
16	Optimum filler geometry for suppression of moisture diffusion in molding compounds. , 2016, , .		4
17	LCOE*: Re-thinking LCOE for Photovoltaic Systems. , 2019, , .		4
18	Worldwide Physics-Based Analysis of Solder Bond Failure in c-Si Modules for Lifetime Prediction. , 2021		4

#	Article	IF	CITATIONS
19	Worldwide Physics-Based Lifetime Prediction of c-Si Modules Due to Solder-Bond Failure. IEEE Journal of Photovoltaics, 2022, 12, 533-539.	2.5	3
20	Is Damp Heat Degradation of c-Si Modules Essentially Universal?. , 2019, , .		2
21	Electrical Signatures of Contact Degradation for c-Si Solar Cells. , 2019, , .		0
22	DEEDS: A Next-Generation Scientific Data Sharing and Analyzing Platform for PV Applications. , 2020, , .		0