

# Reza Asadpour

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

6,818  
citations

758635

12  
h-index

996533

15  
g-index

22  
all docs

22  
docs citations

22  
times ranked

9876  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-efficiency solution-processed perovskite solar cells with millimeter-scale grains. <i>Science</i> , 2015, 347, 522-525.	6.0	2,978
2	High-efficiency two-dimensional Ruddlesden-Popper perovskite solar cells. <i>Nature</i> , 2016, 536, 312-316.	13.7	2,767
3	Light-induced lattice expansion leads to high-efficiency perovskite solar cells. <i>Science</i> , 2018, 360, 67-70.	6.0	554
4	Design principles for electronic charge transport in solution-processed vertically stacked 2D perovskite quantum wells. <i>Nature Communications</i> , 2018, 9, 2130.	5.8	153
5	Bifacial Si heterojunction-perovskite organic-inorganic tandem to produce highly efficient (1.1*100%<b>1/4</b>33%) solar cell. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	82
6	Ligand-Driven Grain Engineering of High Mobility Two-Dimensional Perovskite Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2021, 143, 15215-15223.	6.6	55
7	Light-activated interlayer contraction in two-dimensional perovskites for high-efficiency solar cells. <i>Nature Nanotechnology</i> , 2022, 17, 45-52.	15.6	52
8	Electrical Signatures of Corrosion and Solder Bond Failure in c-Si Solar Cells and Modules. <i>IEEE Journal of Photovoltaics</i> , 2019, 9, 759-767.	1.5	39
9	Temperature-dependent energy gain of bifacial PV farms: A global perspective. <i>Applied Energy</i> , 2020, 276, 115405.	5.1	38
10	Modeling, design guidelines, and detection limits of self-powered enzymatic biofuel cell-based sensors. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112493.	5.3	27
11	A review of next generation bifacial solar farms: predictive modeling of energy yield, economics, and reliability. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 323001.	1.3	24
12	Dark Lock-in Thermography Identifies Solder Bond Failure as the Root Cause of Series Resistance Increase in Fielded Solar Modules. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 1409-1416.	1.5	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]. <i>IEEE Journal of Photovoltaics</i> , 2016, 6, 1390-1390.	1.5	5
15	Tailoring interdigitated back contacts for high-performance bifacial silicon solar cells. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	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.	1.5	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