

Anna B Morales-Vilches

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

17
papers

1,362
citations

11
h-index

17
g-index

17
ext. papers

2,020
ext. citations

12.9
avg, IF

4.32
L-index

#	Paper	IF	Citations
17	Monolithic perovskite/silicon tandem solar cell with >29% efficiency by enhanced hole extraction. <i>Science</i> , 2020 , 370, 1300-1309	33.3	438
16	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. <i>Science</i> , 2020 , 369, 96-102	33.3	231
15	Textured interfaces in monolithic perovskite/silicon tandem solar cells: advanced light management for improved efficiency and energy yield. <i>Energy and Environmental Science</i> , 2018 , 11, 3511-3523	35.4	194
14	Infrared Light Management Using a Nanocrystalline Silicon Oxide Interlayer in Monolithic Perovskite/Silicon Heterojunction Tandem Solar Cells with Efficiency above 25%. <i>Advanced Energy Materials</i> , 2019 , 9, 1803241	21.8	161
13	Highly efficient monolithic perovskite silicon tandem solar cells: analyzing the influence of current mismatch on device performance. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 1995-2005	5.8	139
12	Proton Radiation Hardness of Perovskite Tandem Photovoltaics. <i>Joule</i> , 2020 , 4, 1054-1069	27.8	53
11	Effect of front TCO on the performance of rear-junction silicon heterojunction solar cells: Insights from simulations and experiments. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 195, 339-345	6.4	42
10	ITO-Free Silicon Heterojunction Solar Cells With ZnO:Al/SiO ₂ Front Electrodes Reaching a Conversion Efficiency of 23%. <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 34-39	3.7	28
9	27.9% Efficient Monolithic Perovskite/Silicon Tandem Solar Cells on Industry Compatible Bottom Cells. <i>Solar Rrl</i> , 2021 , 5, 2100244	7.1	22
8	Influence of Silicon Layers on the Growth of ITO and AZO in Silicon Heterojunction Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2020 , 10, 703-709	3.7	14
7	Aluminum-Doped Zinc Oxide as Front Electrode for Rear Emitter Silicon Heterojunction Solar Cells with High Efficiency. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 862	2.6	12
6	Improved Surface Passivation by Wet Texturing, Ozone-Based Cleaning, and Plasma-Enhanced Chemical Vapor Deposition Processes for High-Efficiency Silicon Heterojunction Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900518	1.6	11
5	ZnO:Al/a-SiO _x front contact for polycrystalline-silicon-on-oxide (POLO) solar cells 2018 ,		5
4	A simple method with analytical model to extract heterojunction solar cell series resistance components and to extract the A-Si:H(i/p) to transparent conductive oxide contact resistivity 2019 ,		5
3	Versatility of Nanocrystalline Silicon Films: from Thin-Film to Perovskite/c-Si Tandem Solar Cell Applications. <i>Coatings</i> , 2020 , 10, 759	2.9	3
2	Tailored Nanostructures for Light Management in Silicon Heterojunction Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000484	7.1	2
1	Imaging of Bandtail States in Silicon Heterojunction Solar Cells: Nanoscopic Current Effects on Photovoltaics. <i>ACS Applied Nano Materials</i> , 2021 , 4, 2404-2412	5.6	2

