Anna B Morales-Vilches

List of Publications by Year
in descending order

17 papers	2,689 citations	759055 12 h-index	887953 17 g-index
17 all docs	17 docs citations	17 times ranked	3224 citing authors

#	Article	IF	Citations
1	Monolithic perovskite/silicon tandem solar cell with >29% efficiency by enhanced hole extraction. Science, 2020, 370, 1300-1309.	6.0	1,120
2	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. Science, 2020, 369, 96-102.	6.0	461
3	Textured interfaces in monolithic perovskite/silicon tandem solar cells: advanced light management for improved efficiency and energy yield. Energy and Environmental Science, 2018, 11, 3511-3523.	15.6	281
4	Infrared Light Management Using a Nanocrystalline Silicon Oxide Interlayer in Monolithic Perovskite/Silicon Heterojunction Tandem Solar Cells with Efficiency above 25%. Advanced Energy Materials, 2019, 9, 1803241.	10.2	239
5	Highly efficient monolithic perovskite silicon tandem solar cells: analyzing the influence of current mismatch on device performance. Sustainable Energy and Fuels, 2019, 3, 1995-2005.	2.5	208
6	Proton Radiation Hardness of Perovskite Tandem Photovoltaics. Joule, 2020, 4, 1054-1069.	11.7	104
7	Effect of front TCO on the performance of rear-junction silicon heterojunction solar cells: Insights from simulations and experiments. Solar Energy Materials and Solar Cells, 2019, 195, 339-345.	3.0	62
8	27.9% Efficient Monolithic Perovskite/Silicon Tandem Solar Cells on Industry Compatible Bottom Cells. Solar Rrl, 2021, 5, 2100244.	3.1	59
9	ITO-Free Silicon Heterojunction Solar Cells With ZnO:Al/SiO₂ Front Electrodes Reaching a Conversion Efficiency of 23%. IEEE Journal of Photovoltaics, 2019, 9, 34-39.	1.5	52
10	Influence of Silicon Layers on the Growth of ITO and AZO in Silicon Heterojunction Solar Cells. IEEE Journal of Photovoltaics, 2020, 10, 703-709.	1.5	31
11	Aluminum-Doped Zinc Oxide as Front Electrode for Rear Emitter Silicon Heterojunction Solar Cells with High Efficiency. Applied Sciences (Switzerland), 2019, 9, 862.	1.3	24
12	Improved Surface Passivation by Wet Texturing, Ozoneâ€Based Cleaning, and Plasmaâ€Enhanced Chemical Vapor Deposition Processes for Highâ€Efficiency Silicon Heterojunction Solar Cells. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900518.	0.8	13
13	Tailored Nanostructures for Light Management in Silicon Heterojunction Solar Cells. Solar Rrl, 2020, 4, 2000484.	3.1	11
14	Versatility of Nanocrystalline Silicon Films: from Thin-Film to Perovskite/c-Si Tandem Solar Cell Applications. Coatings, 2020, 10, 759.	1.2	8
15	ZnO:Al/a-SiOx front contact for polycrystalline-silicon-on-oxide (POLO) solar cells. AIP Conference Proceedings, 2018, , .	0.3	7
16	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. AIP Conference Proceedings, 2019, , .	0.3	7
17	Imaging of Bandtail States in Silicon Heterojunction Solar Cells: Nanoscopic Current Effects on Photovoltaics. ACS Applied Nano Materials, 2021, 4, 2404-2412.	2.4	2