

# Xingshu Sun

## List of Publications by Year in descending order

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759233

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docs citations

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times ranked

863  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization and performance of bifacial solar modules: A global perspective. Applied Energy, 2018, 212, 1601-1610.	10.1	198
2	Optics-Based Approach to Thermal Management of Photovoltaics: Selective-Spectral and Radiative Cooling. IEEE Journal of Photovoltaics, 2017, 7, 566-574.	2.5	102
3	A worldwide cost-based design and optimization of tilted bifacial solar farms. Applied Energy, 2019, 247, 467-479.	10.1	89
4	Vertical bifacial solar farms: Physics, design, and global optimization. Applied Energy, 2017, 206, 240-248.	10.1	83
5	A Physics-Based Analytical Model for Perovskite Solar Cells. IEEE Journal of Photovoltaics, 2015, 5, 1389-1394.	2.5	79
6	Silicon Heterojunction System Field Performance. IEEE Journal of Photovoltaics, 2018, 8, 177-182.	2.5	53
7	Thermal and Electrical Effects of Partial Shade in Monolithic Thin-Film Photovoltaic Modules. IEEE Journal of Photovoltaics, 2015, 5, 1742-1747.	2.5	45
8	Ground sculpting to enhance energy yield of vertical bifacial solar farms. Applied Energy, 2019, 241, 592-598.	10.1	42
9	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
10	Real-time monitoring and diagnosis of photovoltaic system degradation only using maximum power point tracking the Sunsamp method. Progress in Photovoltaics: Research and Applications, 2019, 27, 55-66.	8.1	37
11	An Illumination- and Temperature-Dependent Analytical Model for Copper Indium Gallium Diselenide (CIGS) Solar Cells. IEEE Journal of Photovoltaics, 2016, 6, 1298-1307.	2.5	19
12	Modeling and designing multilayer 2D perovskite / silicon bifacial tandem photovoltaics for high efficiencies and long-term stability. Optics Express, 2017, 25, A311.	3.4	19
13	A physics-based compact model for CIGS and CdTe solar cells: From voltage-dependent carrier collection to light-enhanced reverse breakdown. , 2015, , .		9
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