

Tsvetelina Merdzhanova

List of Publications by Year in Descending Order

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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.

27
papers

414
citations

11
h-index

20
g-index

27
ext. papers

488
ext. citations

5.3
avg, IF

3.13
L-index

#	Paper	IF	Citations
27	Prediction of Limits of Solar-to-Hydrogen Efficiency from Polarization Curves of the Electrochemical Cells. <i>Solar Rrl</i> , 2022 , 6, 2100783	7.1	1
26	From room to roof: How feasible is direct coupling of solar-battery power unit under variable irradiance?. <i>Solar Energy</i> , 2020 , 206, 732-740	6.8	6
25	A Bias-Free, Stand-Alone, and Scalable Photovoltaic Electrochemical Device for Solar Hydrogen Production. <i>Advanced Sustainable Systems</i> , 2020 , 4, 2000070	5.9	10
24	An integrated photoanode based on non-critical raw materials for robust solar water splitting. <i>Materials Advances</i> , 2020 , 1, 1202-1211	3.3	2
23	Efficient Area Matched Converter Aided Solar Charging of Lithium Ion Batteries Using High Voltage Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 431-439	6.1	15
22	Bifunctional CoFeVOx Catalyst for Solar Water Splitting by using Multijunction and Heterojunction Silicon Solar Cells. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000592	6.8	6
21	Coupling and Trapping of Light in Thin-Film Solar Cells Using Modulated Interface Textures. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4648	2.6	5
20	Bioinspired phase-separated disordered nanostructures for thin photovoltaic absorbers. <i>Science Advances</i> , 2017 , 3, e1700232	14.3	74
19	Compatibility study towards monolithic self-charging power unit based on all-solid thin-film solar module and battery. <i>Journal of Power Sources</i> , 2017 , 365, 303-307	8.9	12
18	Photoelectrochemical application of thin-film silicon triple-junction solar cell in batteries. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1926-1931	1.6	11
17	Impact of transparent conductive oxide front side texture on the open-circuit voltage of a-Si:H solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1942-1948	1.6	
16	Development towards cell-to-cell monolithic integration of a thin-film solar cell and lithium-ion accumulator. <i>Journal of Power Sources</i> , 2016 , 327, 340-344	8.9	25
15	Analysis of the light-induced degradation of differently matched tandem solar cells with and without an intermediate reflector using the Power Matching Method. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 1-8	6.4	4
14	Advancing tandem solar cells by spectrally selective multilayer intermediate reflectors. <i>Optics Express</i> , 2014 , 22 Suppl 5, A1270-7	3.3	20
13	UV nanoimprint for the replication of etched ZnO:Al textures applied in thin-film silicon solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2014 , 22, 1226-1236	6.8	29
12	Thin-film Silicon Solar Cells on Dry Etched Textured Glass. <i>Energy Procedia</i> , 2014 , 44, 151-159	2.3	18
11	Thin-film silicon solar cell development on imprint-textured glass substrates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013 , 178, 617-622	3.1	21

10	Process monitoring of texture-etched high-rate ZnO:Al front contacts for silicon thin-film solar cells. <i>Thin Solid Films</i> , 2013 , 532, 66-72	2.2	11
9	a-Si:H/ μ -Si:H solar cells prepared by the single-chamber processes: minimization of phosphorus and boron cross contamination. <i>Thin Solid Films</i> , 2013 , 540, 251-255	2.2	7
8	In Situ Current Determination of a-Si/ μ -Si Tandem Solar Cells via Transmission Measurements During Silicon PECVD. <i>IEEE Journal of Photovoltaics</i> , 2012 , 2, 77-82	3.7	1
7	Impurities in thin-film silicon: Influence on material properties and solar cell performance. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2171-2178	3.9	10
6	Critical Concentrations of Atmospheric Contaminants in a-Si:H and μ -Si:H Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1245, 1		6
5	Critical oxygen concentration in hydrogenated amorphous silicon solar cells dependent on the contamination source. <i>Applied Physics Letters</i> , 2010 , 96, 103505	3.4	11
4	High critical oxygen concentration in microcrystalline silicon solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 323-325	2.5	5
3	Three-dimensional composition profiles of single quantum dots determined by scanning-probe-microscopy-based nanotomography. <i>Nano Letters</i> , 2008 , 8, 1404-9	11.5	103
2	Batteries to Keep Solar-Driven Water Splitting Running at Night: Performance of a Directly Coupled System. <i>Solar Rrl</i> , 2100916	7.1	0
1	How Thin Practical Silicon Heterojunction Solar Cells Could Be? Experimental Study under 1 Sun and under Indoor Illumination. <i>Solar Rrl</i> , 2100594	7.1	1