Fabian Fertig

List of Publications by Year
in descending order

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24	498	759233 12	677142 22
papers	citations	h-index	g-index

24	24	24	498
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Light-induced degradation of PECVD aluminium oxide passivated silicon solar cells. Physica Status Solidi - Rapid Research Letters, 2015, 9, 41-46.	2.4	122
2	Light-induced Degradation of Silicon Solar Cells with Aluminiumoxide Passivated Rear Side. Energy Procedia, 2015, 77, 599-606.	1.8	56
3	System performance loss due to LeTID. Energy Procedia, 2017, 124, 540-546.	1.8	55
4	Economic feasibility of bifacial silicon solar cells. Progress in Photovoltaics: Research and Applications, 2016, 24, 800-817.	8.1	44
5	Fast Regeneration Processes to Avoid Light-Induced Degradation in Multicrystalline Silicon Solar Cells. IEEE Journal of Photovoltaics, 2016, 6, 1427-1431.	2.5	30
6	Spatially Resolved Analysis of Light Induced Degradation of Multicrystalline PERC Solar Cells. Energy Procedia, 2016, 92, 867-872.	1.8	27
7	Spatially resolved determination of the short-circuit current density of silicon solar cells via lock-in thermography. Applied Physics Letters, 2014, 104, 201111.	3.3	22
8	biPERC silicon solar cells enabling bifacial applications for industrial solar cells with passivated rear sides. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 68-71.	1.8	21
9	Impact of Material and Process Variations on the Distribution of Multicrystalline Silicon PERC Cell Efficiencies. IEEE Journal of Photovoltaics, 2017, 7, 118-128.	2.5	18
10	An empirical method for imaging the short circuit current density in silicon solar cells based on dark lock-in thermography. Solar Energy Materials and Solar Cells, 2015, 143, 406-410.	6.2	16
11	Bifacial potential of singleâ€•and doubleâ€sided collecting silicon solar cells. Progress in Photovoltaics: Research and Applications, 2016, 24, 818-829.	8.1	14
12	The BOSCO Solar Cell: Simulation and Experiment. IEEE Journal of Photovoltaics, 2014, 4, 1243-1251.	2.5	13
13	Illumination and Temperature Dependence of Breakdown Mechanisms in Multi-crystalline Silicon Solar Cells. Energy Procedia, 2013, 38, 32-42.	1.8	9
14	The BOSCO solar cell â€“ a both sides collecting and contacted structure. Physica Status Solidi - Rapid Research Letters, 2014, 8, 381-384.	2.4	8
15	Intrinsic effects of double side collecting silicon solar cells. Energy Procedia, 2011, 8, 160-166.	1.8	6
16	HIP-MWT: A simplified structure for metal wrap through solar cells with passivated rear surface. Energy Procedia, 2011, 8, 498-502.	1.8	6
17	The BOSCO Solar Cell: Double-sided Collection and Bifacial Operation. Energy Procedia, 2014, 55, 416-424.	1.8	5
18	Short-circuit current density imaging of crystalline silicon solar cells via lock-in thermography: Robustness and simplifications. Journal of Applied Physics, 2014, 116, 184501.	2.5	5

#	Article	IF	Citations
19	Short-circuit Current Density Imaging Methods for Silicon Solar Cells. Energy Procedia, 2015, 77, 43-56.	1.8	5
20	Q CELLS > 24% Silicon Solar Cells With Mass-Production Processes. IEEE Journal of Photovoltaics, 2022, 12, 22-25.	2.5	5
21	Characterization and modeling of screen-printed metal insulator semiconductor tunnel junctions for integrated bypass functionality in crystalline silicon solar cells. Journal of Applied Physics, 2013, 113, 214502.	2.5	4
22	Q.ANTUM on p-type Cz silicon: high-end performance and reliability. , 2018, , .		4
23	Resistivity, Doping Concentrations, and Carrier Mobilities in Compensated n- and p-Type Czochralski Silicon: Comparison of Measurements and Simulations and Consistent Description of Material Parameters. IEEE Journal of Photovoltaics, 2015, 5, 1276-1284.	2.5	2
24	The BOSCO cell concept: Bifacial operation with double-sided collection. , 2014, , .		1