

Wilhelm Warta

List of Publications by Year in descending order

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63
papers

12,233
citations

109311

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155644

55
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63
all docs

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docs citations

63
times ranked

13498
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar cell efficiency tables (Version 45). Progress in Photovoltaics: Research and Applications, 2015, 23, 1-9.	8.1	1,618
2	Solar cell efficiency tables (version 39). Progress in Photovoltaics: Research and Applications, 2012, 20, 12-20.	8.1	1,047
3	Solar cell efficiency tables (version 50). Progress in Photovoltaics: Research and Applications, 2017, 25, 668-676.	8.1	792
4	Solar cell efficiency tables (version 37). Progress in Photovoltaics: Research and Applications, 2011, 19, 84-92.	8.1	684
5	Solar cell efficiency tables (version 41). Progress in Photovoltaics: Research and Applications, 2013, 21, 1-11.	8.1	680
6	Solar cell efficiency tables (version 47). Progress in Photovoltaics: Research and Applications, 2016, 24, 3-11.	8.1	591
7	Solar cell efficiency tables (version 49). Progress in Photovoltaics: Research and Applications, 2017, 25, 3-13.	8.1	582
8	Solar cell efficiency tables (version 48). Progress in Photovoltaics: Research and Applications, 2016, 24, 905-913.	8.1	574
9	Solar cell efficiency tables (version 44). Progress in Photovoltaics: Research and Applications, 2014, 22, 701-710.	8.1	476
10	Solar cell efficiency tables (version 43). Progress in Photovoltaics: Research and Applications, 2014, 22, 1-9.	8.1	472
11	Solar cell efficiency tables (version 46). Progress in Photovoltaics: Research and Applications, 2015, 23, 805-812.	8.1	471
12	Impact of illumination level and oxide parameters on Shockley-Read-Hall recombination at the Si-SiO ₂ interface. Journal of Applied Physics, 1992, 71, 4422-4431.	2.5	412
13	Solar cell efficiency tables (version 36). Progress in Photovoltaics: Research and Applications, 2010, 18, 346-352.	8.1	380
14	Solar cell efficiency tables (version 40). Progress in Photovoltaics: Research and Applications, 2012, 20, 606-614.	8.1	333
15	Solar cell efficiency tables (version 42). Progress in Photovoltaics: Research and Applications, 2013, 21, 827-837.	8.1	302
16	Solar cell efficiency tables (version 33). Progress in Photovoltaics: Research and Applications, 2009, 17, 85-94.	8.1	301
17	Hot holes in naphthalene: High, electric-field-dependent mobilities. Physical Review B, 1985, 32, 1172-1182.	3.2	285
18	Solar cell efficiency tables (Version 38). Progress in Photovoltaics: Research and Applications, 2011, 19, 565-572.	8.1	277

#	ARTICLE	IF	CITATIONS
19	Solar cell efficiency tables (version 35). Progress in Photovoltaics: Research and Applications, 2010, 18, 144-150.	8.1	239
20	Solar cell efficiency tables (Version 34). Progress in Photovoltaics: Research and Applications, 2009, 17, 320-326.	8.1	180
21	Solar cell efficiency tables (Version 31). Progress in Photovoltaics: Research and Applications, 2008, 16, 61-67.	8.1	173
22	Degradation of Crystalline Silicon Due to Boron-Oxygen Defects. IEEE Journal of Photovoltaics, 2017, 7, 383-398.	2.5	126
23	Injection-level-dependent recombination velocities at the Si-SiO ₂ interface for various dopant concentrations. Journal of Applied Physics, 1994, 75, 1611-1615.	2.5	112
24	Solar cell efficiency tables (version 30). Progress in Photovoltaics: Research and Applications, 2007, 15, 425-430.	8.1	109
25	Solar cell efficiency tables (version 29). Progress in Photovoltaics: Research and Applications, 2007, 15, 35-40.	8.1	92
26	Solar cell efficiency tables (version 22). Progress in Photovoltaics: Research and Applications, 2003, 11, 347-352.	8.1	78
27	High-field saturation of charge carrier drift velocities in ultrapurified organic photoconductors. Synthetic Metals, 1991, 42, 2473-2481.	3.9	74
28	Solar cell efficiency tables (Version 32). Progress in Photovoltaics: Research and Applications, 2008, 16, 435-440.	8.1	74
29	Impact of Impurities From Crucible and Coating on mc-Silicon Quality—the Example of Iron and Cobalt. IEEE Journal of Photovoltaics, 2013, 3, 1250-1258.	2.5	66
30	Can Luminescence Imaging Replace Lock-in Thermography on Solar Cells?. IEEE Journal of Photovoltaics, 2011, 1, 159-167.	2.5	62
31	Solar cell efficiency tables (version 17). Progress in Photovoltaics: Research and Applications, 2001, 9, 49-56.	8.1	50
32	Imaging of Metastable Defects in Silicon. IEEE Journal of Photovoltaics, 2011, 1, 168-173.	2.5	50
33	Solar cell efficiency tables (version 18). Progress in Photovoltaics: Research and Applications, 2001, 9, 287-293.	8.1	41
34	Spatially resolved lifetime imaging of silicon wafers by measurement of infrared emission. Journal of Applied Physics, 2003, 94, 4139-4143.	2.5	40
35	Microscopic origin of the aluminium assisted spiking effects in n-type silicon solar cells. Solar Energy Materials and Solar Cells, 2014, 131, 105-109.	6.2	35
36	Determination of spatially resolved trapping parameters in silicon with injection dependent carrier density imaging. Journal of Applied Physics, 2006, 99, 114908.	2.5	32

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37	Analyses of the Evolution of Iron-Silicide Precipitates in Multicrystalline Silicon During Solar Cell Processing. IEEE Journal of Photovoltaics, 2013, 3, 131-137.	2.5	32
38	Solar cell efficiency tables (version 19). Progress in Photovoltaics: Research and Applications, 2002, 10, 55-61.	8.1	31
39	Electrical characterization of the slow boron oxygen defect component in Czochralski silicon. Physica Status Solidi - Rapid Research Letters, 2015, 9, 692-696.	2.4	31
40	Effect of dislocations on minority carrier diffusion length in practical silicon solar cells. Journal of Applied Physics, 2006, 100, 063706.	2.5	30
41	Contactless Qualitative Series Resistance Imaging on Solar Cells. IEEE Journal of Photovoltaics, 2012, 2, 181-183.	2.5	27
42	Solar cell efficiency tables (version 26). Progress in Photovoltaics: Research and Applications, 2005, 13, 387-392.	8.1	26
43	Defect-Induced Breakdown in Multicrystalline Silicon Solar Cells. IEEE Transactions on Electron Devices, 2010, 57, 2227-2234.	3.0	20
44	Spatially Resolved Impurity Identification via Temperature- and Injection-Dependent Photoluminescence Imaging. IEEE Journal of Photovoltaics, 2015, 5, 1503-1509.	2.5	20
45	Comprehensive Microscopic Analysis of Laser-Induced High Doping Regions in Silicon. IEEE Transactions on Electron Devices, 2011, 58, 2874-2877.	3.0	18
46	Effect of dislocations on open circuit voltage in crystalline silicon solar cells. Journal of Applied Physics, 2006, 100, 093708.	2.5	14
47	Doping Density in Silicon and Solar Cells Analyzed With Micrometer Resolution. IEEE Journal of Photovoltaics, 2013, 3, 341-347.	2.5	13
48	Prediction of diffusion length in multicrystalline silicon solar cells from trapping images on starting material. Progress in Photovoltaics: Research and Applications, 2007, 15, 331-336.	8.1	11
49	Origin of trapping in multicrystalline silicon. Journal of Applied Physics, 2008, 104, 073716.	2.5	10
50	Imaging of Metal Impurities in Silicon by Luminescence Spectroscopy and Synchrotron Techniques. Journal of Electronic Materials, 2010, 39, 787-793.	2.2	9
51	Local Series Resistance Imaging of Silicon Solar Cells With Complex Current Paths. IEEE Journal of Photovoltaics, 2015, 5, 752-758.	2.5	8
52	Determination of the minority carrier lifetime in crystalline silicon thin-film material. Progress in Photovoltaics: Research and Applications, 2014, 22, 180-188.	8.1	5
53	Improving the accuracy of Suns-V _{OC} measurements using spectral mismatch correction. , 2008, , .		4
54	Comparison of photoconductance- and photo-luminescence-based lifetime measurement techniques. , 2008, , .		3

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55	Experimental Proof of the Slow Light-Induced Degradation Component in Compensated <i>n</i> -Type Silicon. Solid State Phenomena, 2015, 242, 102-108.	0.3	3
56	Photoluminescence imaging of chromium in crystalline silicon. , 2010, , .		2
57	Recombination activity enhancement by stress in silicon. , 2010, , .		2
58	Contact fault characterisation of complex silicon solar cells: a guideline based on current voltage characteristics and luminescence imaging. Progress in Photovoltaics: Research and Applications, 2016, 24, 326-339.	8.1	2
59	Modeling the size distribution of iron silicide precipitates in multicrystalline silicon. , 2012, , .		1
60	Efficiency-Limiting Recombination in Multicrystalline Silicon Solar Cells. Solid State Phenomena, 2013, 205-206, 110-117.	0.3	1
61	Cause of increased currents under reverse-bias conditions of upgraded metallurgical grade multicrystalline silicon solar cells. , 2010, , .		0
62	Quantum efficiency measurement of concentrator photovoltaic modules. , 2015, , .		0
63	A European proficiency test on thin-film tandem photovoltaic devices. Progress in Photovoltaics: Research and Applications, 2020, 28, 1258-1276.	8.1	0