

Abasifreke Ebong

List of Publications by Year in descending order

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37
papers

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38
docs citations

38
times ranked

372
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the Screen-printable Ag/Cu Contact for Si Solar Cells Using Microstructural, Optical and Electrical Analyses. MRS Advances, 2020, 5, 431-439.	0.9	0
2	The impact of semimetal nanoparticles on the conduction of thick glass layer at Ag/Si contact interface. Journal of Applied Physics, 2020, 127, .	2.5	8
3	Rapid Thermal Annealing of Screen-printable Atmospheric Cu Pastes for PERC Solar Cell. , 2020, , .		2
4	The Role of Nano-crystallites on Conduction Mechanisms of Current Through Ag Gridlines of Si Solar Cells. MRS Advances, 2019, 4, 311-318.	0.9	3
5	A Cost-Effective Alternative to Dispensing Ag Ink for Highly Efficient Si Solar Cell Contacts. , 2019, , .		1
6	Impact of Rapid Firing Thermal Processes on Meta-Stable Defects: Preformation of the LeTID and the Suppression of B-O Defects. , 2018, , .		4
7	An overview of advances in high reliability gate driving mechanisms for SiC MOSFETs. , 2017, , .		7
8	Exploiting the Potentials of the Front Surface Field (FSF) Industrial Silicon Solar Cell. , 2017, , .		0
9	Understanding the influence of tellurium oxide in front Ag paste for contacting silicon solar cells with homogeneous high sheet resistance emitter. Japanese Journal of Applied Physics, 2017, 56, 08MB07.	1.5	10
10	Empirical Comparison of Random and Periodic Surface Light Trapping Structures for Ultrathin Silicon Photovoltaics. Advanced Optical Materials, 2016, 4, 858-863.	7.3	28
11	On structural and electrical characterization of n-ZnO/p-Si single heterojunction solar cell. , 2016, , .		1
12	The use of ImageJ software to correlate the percentage area of Ag crystallites to contact resistance in Si solar cells. , 2016, , .		0
13	Towards 20% efficient industrial Al-BSF silicon solar cell with multiple busbars and fine gridlines. Solar Energy Materials and Solar Cells, 2016, 146, 107-113.	6.2	15
14	Innovative Front Grid Design, Four-Streets and Five-Busbars (4S-5BB), for High Efficiency Industrial Al-BSF Silicon Solar Cell. IEEE Electron Device Letters, 2016, 37, 459-462.	3.9	11
15	Thin film solar technologies: a review. , 2015, , .		8
16	The impact of Ag particle size and rapid thermal processing belt speed on contact resistance of a silicon solar cell. , 2015, , .		3
17	Zinc oxide and silicon based heterojunction solar cell model. , 2015, , .		6
18	Generalized analysis of the impact of emitter sheet resistance on silicon solar cell performance. Japanese Journal of Applied Physics, 2015, 54, 08KD20.	1.5	15

#	ARTICLE	IF	CITATIONS
19	Investigating the benefits of multi busbars for industrial Al-BSF silicon solar cells. , 2015, , .		2
20	Specifications of ZnO growth for heterostructure solar cell and PC1D based simulations. Data in Brief, 2015, 5, 516-521.	1.0	7
21	Comprehensive empirical model for evaluation of the series resistance of a solar cell. , 2014, , .		0
22	Pathway to low-cost metallization of silicon solar cell through understanding of the silicon metal interface and plating chemistry. Electrochimica Acta, 2014, 128, 336-340.	5.2	7
23	Effect of carbon containing SiNx antireflection coating on the screen-printed contact and low illumination performance of silicon solar cell. Progress in Photovoltaics: Research and Applications, 2013, 21, 351-358.	8.1	2
24	Capitalising on the Precisions of Ion Implantation and Ink Jetted Fine Gridline to Create Low-Cost High Efficiency Silicon Solar Cells. Energy Procedia, 2013, 33, 24-32.	1.8	8
25	Assessing the impact of multi-busbars on metallization cost and efficiency of solar cells with digital inkjet-printed gridlines. , 2013, , .		7
26	Commercial size multicrystalline silicon solar cell with ion implant emitter. , 2013, , .		0
27	Solar electricity: Realizing the dream through digital inkjet metallization of multi-crystalline Si solar cell. , 2012, , .		0
28	Metallization of crystalline silicon solar cells: A review. , 2012, , .		32
29	On the Ink Jetting of Full Front Ag Gridlines for Cost-Effective Metallization of Si Solar Cells. IEEE Electron Device Letters, 2012, 33, 637-639.	3.9	14
30	Capitalizing on the Glass-Etching Effect of Silver Plating Chemistry to Contact Si Solar Cells With Homogeneous $100 \times 10^4 \Omega/\text{cm}^2$ Emitters. IEEE Electron Device Letters, 2011, 32, 779-781.	3.9	16
31	Development and Understanding of High-Efficiency Screen-Printed Concentrator Silicon Solar Cells. IEEE Journal of Photovoltaics, 2011, 1, 231-235.	2.5	6
32	Reduction in Light Induced Degradation (LID) in B-doped Cz-Si Solar Cells with SiCxNy Antireflection (AR) Coating. Journal of the Electrochemical Society, 2011, 158, H724.	2.9	6
33	Understanding of High-Throughput Rapid Thermal Firing of Screen-Printed Contacts to Large-Area Cast Multicrystalline Si Solar Cells. IEEE Transactions on Electron Devices, 2010, 57, 2872-2879.	3.0	5
34	High efficiency inline diffused emitter (ILDE) solar cells on mono-crystalline CZ silicon. Progress in Photovoltaics: Research and Applications, 2010, 18, 590-595.	8.1	26
35	Understanding and Use of IR Belt Furnace for Rapid Thermal Firing of Screen-Printed Contacts to Si Solar Cells. IEEE Electron Device Letters, 2010, 31, 461-463.	3.9	30
36	High-efficiency (19%) screen-printed textured cells on low-resistivity float-zone silicon with high sheet-resistance emitters. Progress in Photovoltaics: Research and Applications, 2006, 14, 135-144.	8.1	28

#	ARTICLE	IF	CITATIONS
37	Resistivity dependence of minority carrier lifetime and cell performance in p-type dendritic web silicon ribbon. <i>Solid-State Electronics</i> , 2001, 45, 1973-1978.	1.4	3