Anastasia H Soeriyadi

List of Publications by Year
in descending order

33 papers	353 citations	1040056 9 h-index	839539 18 g-index
33 all docs	33 docs citations	33 times ranked	622 citing authors

#	Article	IF	Citations
1	Firing stability of tube furnaceâ€annealed nâ€type polyâ€Si on oxide junctions. Progress in Photovoltaics: Research and Applications, 2022, 30, 49-64.	8.1	12
2	Impact of surface doping profile and passivation layers on surface-related degradation in silicon PERC solar cells. Solar Energy Materials and Solar Cells, 2022, 235, 111497.	6.2	4
3	High-Intensity Illuminated Annealing of Industrial SHJ Solar Cells: A Pilot Study. IEEE Journal of Photovoltaics, 2022, 12, 267-273.	2.5	10
4	Avoiding Shading Losses in Concentrator Photovoltaics Using a Soft-Imprinted Cloaking Geometry. IEEE Journal of Photovoltaics, 2022, 12, 1116-1127.	2.5	5
5	Stability Study of Silicon Heterojunction Solar Cells Fabricated with Galliumâ€and Boronâ€Doped Silicon Wafers. Solar Rrl, 2021, 5, 2100406.	5.8	10
6	Progress with Defect Engineering in Silicon Heterojunction Solar Cells. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100170.	2.4	16
7	Silicon Nanotexture Surface Area Mapping Using Ultraviolet Reflectance. IEEE Journal of Photovoltaics, 2021, 11, 1291-1298.	2.5	3
8	23.4% monolithic epitaxial GaAsP/Si tandem solar cells and quantification of losses from threading dislocations. Solar Energy Materials and Solar Cells, 2021, 230, 111299.	6.2	14
9	Improved Laser-Induced Defect Passivation and Simultaneous Elimination of Light-Induced Degradation in p-Type Czochralski Silicon. IEEE Journal of Photovoltaics, 2021, 11, 1370-1379.	2.5	2
10	Investigating the degradation behaviours of n+-doped Poly-Si passivation layers: An outlook on long-term stability and accelerated recovery. Solar Energy Materials and Solar Cells, 2021, , 111491.	6.2	3
11	Investigation of light-induced degradation in N-Type silicon heterojunction solar cells during illuminated annealing at elevated temperatures. Solar Energy Materials and Solar Cells, 2020, 218, 110752.	6.2	19
12	Evidence for a Lightâ€Induced Degradation Mechanism at Elevated Temperatures in Commercial Nâ€Type Silicon Heterojunction Solar Cells. Solar Rrl, 2020, 4, 2000214.	5.8	15
13	Largeâ€Area Boronâ€Doped 1.6â€‰Î©â€‰cm pâ€Type Czochralski Silicon Heterojunction Solar Cells with a Stable Openâ€Circuit Voltage of 736â€‰mV and Efficiency of 22.0%. Solar Rrl, 2020, 4, 2000134.	5.8	13
14	Can hydrogenation mitigate Cu-induced bulk degradation in silicon?. , 2020, , .		0
15	Formation Mechanism of Cu-based Ohmic Contacts for GaAs Solar Cells. , 2020, , .		1
16	Diffusion profiles beneath silicon heterojunction contacts reduce contact resistivity and increase efficiency. , 2020, , .		0
17	Pâ€type Upgraded Metallurgicalâ€Grade Multicrystalline Silicon Heterojunction Solar Cells with Openâ€Circuit Voltages over 690â€‰mV. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900319.	1.8	9
18	Evaluating the Impact of and Solutions to Light-induced Degradation in Silicon Heterojunction Solar Cells. , 2019, , .		3

#	Article	IF	Citations
19	Elevating Low-Quality Silicon Wafers For High-Efficiency Silicon Heterojunction Solar Cell Applications. , 2019, , .		0
20	Loss analysis for single junction concentrator solar cells. AIP Conference Proceedings, 2018, , .	0.4	4
21	Large area efficient interface layer free monolithic perovskite/homo-junction-silicon tandem solar cell with over 20% efficiency. Energy and Environmental Science, 2018, 11, 2432-2443.	30.8	172
22	Aluminum Induced Crystallization of <italic>In-Situ</italic> Phosphorus Doped E-Beam Evaporated Silicon Films for High Gauge Factor Piezo-Resistors. IEEE Electron Device Letters, 2018, 39, 889-892.	3.9	3
23	Spectral response of steady-state photoluminescence from GaAs1-xPx layers grown on a SiGe/Si system. Applied Physics Letters, 2017, 111, .	3.3	2
24	Performance improvement for epitaxially grown SiGe on Si solar cell using a compositionally graded SiGe base. Applied Physics Letters, 2016, 109, 243503.	3.3	6
25	Increased Spectrum Utilization with GaAsP/SiGe Solar Cells Grown on Silicon Substrates. MRS Advances, 2016, 1, 2901-2906.	0.9	0
26	Spatially resolved EL and PL coupling of a dual junction solar cell. , 2016, , .		1
27	Improved GaAsP/SiGe tandem on silicon outdoors and under concentration. , 2016, , .		0
28	Performance improvement for epitaxially grown SiGe on Si solar cell by optimizing the back surface field. Physica Status Solidi - Rapid Research Letters, 2016, 10, 735-738.	2.4	2
29	Current and efficiency improvement for a GaAsP/SiGe on Si tandem solar cell device achieved by light trapping techniques. Physica Status Solidi - Rapid Research Letters, 2016, 10, 596-599.	2.4	6
30	Short ciruit current improvement of SiGe solar cell in a gallium arsenide phosphide - silicon germanium dual junction solar cell on Si substrate. , 2015, , .		2
31	Optical and electrical analysis of graded buffer layers in IIIâ€“V/SiGe on silicon tandem solar cells. , 2015, , .		1
32	Material and Device Improvement of GaAsP Top Solar Cells for GaAsP/SiGe Tandem Solar Cells Grown on Si Substrates. IEEE Journal of Photovoltaics, 2015, 5, 1800-1804.	2.5	14
33	GaAsP Hall mobility characterization for GaAsP/SiGe tandem solar cell on Si substrate. , 2014, , .		1