

# Giuseppe Scardera

## List of Publications by Year in descending order

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25  
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docs citations

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times ranked

854  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large volume tomography using plasma FIB-SEM: A comprehensive case study on black silicon. <i>Ultramicroscopy</i> , 2022, 233, 113458.	1.9	4
2	Quantifying the Effect of Nanofeature Size on the Electrical Performance of Black Silicon Emitter by Nanoscale Modeling. <i>IEEE Journal of Photovoltaics</i> , 2022, 12, 744-753.	2.5	4
3	On the Enhanced Phosphorus Doping of Nanotextured Black Silicon. <i>IEEE Journal of Photovoltaics</i> , 2021, 11, 298-305.	2.5	13
4	The Role of Metal-Catalyzed Chemical Etching Black Silicon in the Reduction of Light- and Elevated Temperature-Induced Degradation in P-Type Multicrystalline Wafers. <i>IEEE Journal of Photovoltaics</i> , 2021, 11, 627-633.	2.5	2
5	Silicon Nanotexture Surface Area Mapping Using Ultraviolet Reflectance. <i>IEEE Journal of Photovoltaics</i> , 2021, 11, 1291-1298.	2.5	3
6	3D characterisation using plasma FIB-SEM: A large-area tomography technique for complex surfaces like black silicon. <i>Ultramicroscopy</i> , 2020, 218, 113084.	1.9	12
7	Improved emitter performance of RIE black silicon through the application of in-situ oxidation during POCl <sub>3</sub> diffusion. <i>Solar Energy Materials and Solar Cells</i> , 2020, 210, 110480.	6.2	16
8	Understanding Field-Effect Passivation of Black Silicon: Modeling Charge Carrier Population Control in Compressed Space Charge Regions. , 2020, , .		1
9	Annual energy yield analysis of solar cell technology. , 2019, , .		2
10	Advanced Characterisation of Black Silicon Surface Topography with 3D PFIB-SEM. , 2019, , .		2
11	Manufacturing metrology for c-Si module reliability and durability Part II: Cell manufacturing. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 59, 225-252.	16.4	38
12	Manufacturing metrology for c-Si photovoltaic module reliability and durability, Part I: Feedstock, crystallization and wafering. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 59, 84-106.	16.4	30
13	Manufacturing metrology for c-Si module reliability and durability Part III: Module manufacturing. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 59, 992-1016.	16.4	59
14	Screen-printed dopant paste interdigitated back contact solar cells. , 2015, , .		2
15	All-screen-printed Dopant Paste Interdigitated Back Contact Solar Cell. <i>Energy Procedia</i> , 2015, 77, 271-278.	1.8	16
16	A review of manufacturing metrology for improved reliability of silicon photovoltaic modules. , 2014, , .		2
17	Iron contamination in silicon solar cell production environments. , 2014, , .		3
18	Simulation of emitter doping profiles formed by industrial POCl <sub>3</sub> processes. , 2013, , .		5

#	ARTICLE	IF	CITATIONS
19	Front metal and diffusion optimization for selective emitter. , 2012, , .		2
20	Silicon quantum dot nanostructures for tandem photovoltaic cells. Thin Solid Films, 2008, 516, 6748-6756.	1.8	395
21	Silicon Quantum Dots in a Dielectric Matrix for All-Silicon Tandem Solar Cells. Advances in OptoElectronics, 2007, 2007, 1-11.	0.6	101
22	Effects of silicon nanocrystallite density on the Raman-scattering spectra of silicon quantum dot superlattices. , 2006, , .		2
23	Effect of annealing temperature on the formation of silicon nanocrystals in a nitride matrix. , 2006, , .		2
24	Plasma Focused Ion Beam Tomography for Accurate Characterization of Black Silicon Validated by Full Wave Optical Simulation. Advanced Materials Technologies, 0, , 2200068.	5.8	0
25	A solid strategy to realize heteroface selective emitter and rear passivated silicon solar cells. Progress in Photovoltaics: Research and Applications, 0, , .	8.1	1