Amir Dastgheib-Shirazi

List of Publications by Year
in descending order

14 papers	277 citations	1163117 8 h-index	1372567 10 g-index
14 all docs	14 docs citations	14 times ranked	359 citing authors

#	Article	IF	Citations
1	A numerical simulation study of gallium-phosphide/silicon heterojunction passivated emitter and rear solar cells. Journal of Applied Physics, 2014, 115, 044508.	2.5	49
2	Relationships between Diffusion Parameters and Phosphorus Precipitation during the POCl3 Diffusion Process. Energy Procedia, 2013, 38, 254-262.	1.8	45
3	Optimizing phosphorus diffusion for photovoltaic applications: Peak doping, inactive phosphorus, gettering, and contact formation. Journal of Applied Physics, 2016, 119, .	2.5	45
4	Heavily doped Si:P emitters of crystalline Si solar cells: recombination due to phosphorus precipitation. Physica Status Solidi - Rapid Research Letters, 2014, 8, 680-684.	2.4	36
5	Minimizing the electrical losses on the front side: Development of a selective emitter process from a single diffusion. , 2008, , .		25
6	Limitation of Industrial Phosphorus-diffused Emitters by SRH Recombination. Energy Procedia, 2014, 55, 115-120.	1.8	21
7	A model for phosphosilicate glass deposition via POCl3 for control of phosphorus dose in Si. Journal of Applied Physics, 2012, 112, 124912.	2.5	18
8	Impact of Extended Contact Cofiring on Multicrystalline Silicon Solar Cell Parameters. IEEE Journal of Photovoltaics, 2017, 7, 91-96.	2.5	17
9	Dissolution of Electrically Inactive Phosphorus by Low Temperature Annealing. Energy Procedia, 2015, 77, 286-290.	1.8	9
10	Analyzing emitter dopant inhomogeneities at textured Si surfaces by using 3D process and device simulations in combination with SEM imaging. , 2012, , .		8
11	Electrically-inactive phosphorus re-distribution during low temperature annealing. Journal of Applied Physics, 2018, 123, 161535.	2.5	3
12	Enhanced Oxidation of Thermally Grown SiO2 Due to P Precipitates. Energy Procedia, 2016, 92, 457-465.	1.8	1
13	Role of thermal SiO2 on passivation of highly doped layer. AIP Conference Proceedings, 2019, , .	0.4	0
14	A novel approach for the evaluation of a phosphorus diffusion design of experiment. AIP Conference Proceedings, 2019, , .	0.4	0