Suchismita Mitra

List of Publications by Year
in descending order

16	121	1478505 6	1281871 11
papers	citations	h-index	g-index

16	16	16	162
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recombination Analysis of Tunnel Oxide Passivated Contact Solar Cells. IEEE Transactions on Electron Devices, 2019, 66, 1368-1376.	3.0	24
2	Argon plasma treatment of silicon nitride (SiN) for improved antireflection coating on c-Si solar cells. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 215, 29-36.	3.5	17
3	Potential of ITO nanoparticles formed by hydrogen treatment in PECVD for improved performance of back grid contact crystalline silicon solar cell. Applied Surface Science, 2015, 349, 116-122.	6.1	14
4	Light-Harvesting Properties of Embedded Tin Oxide Nanoparticles for Partial Rear Contact Silicon Solar Cells. Plasmonics, 2017, 12, 1761-1772.	3.4	12
5	Light trapping in a-Si/c-Si heterojunction solar cells by embedded ITO nanoparticles at rear surface. Journal Physics D: Applied Physics, 2017, 50, 495110.	2.8	12
6	Exploring the efficiency limiting parameters trade-off at rear surface in passivated emitter rear contact (PERC) silicon solar cells. Solar Energy Materials and Solar Cells, 2021, 232, 111338.	6.2	8
7	Investigation of different contact geometries for partial rear metal contact of high-efficiency silicon solar cells. Journal Physics D: Applied Physics, 2015, 48, 465106.	2.8	6
8	Improvement of photon management in partial rear contact solar cells using a combination of DBR and Mie scatterers. Optics Communications, 2017, 397, 1-9.	2.1	5
9	Growth of KOH etched AZO nanorods and investigation of its back scattering effect in thin film a-Si solar cell. Physica B: Condensed Matter, 2018, 530, 147-156.	2.7	5
10	Potential of zinc oxide nanowhiskers as antireflection coating in crystalline silicon solar cell for cost effectiveness. Journal of Materials Science: Materials in Electronics, 2019, 30, 11017-11026.	2.2	5
11	Back scattering involving embedded silicon nitride (SiN) nanoparticles for c-Si solar cells. Optics Communications, 2018, 413, 63-72.	2.1	4
12	Effect of Induced Charges on the Performance of Different Dielecteric Layers of c-Si Solar Cell by Experimental and Theoretical Approach. Silicon, 2020, 12, 2601-2609.	3.3	4
13	A comprehensive analysis of recombination and resistive losses in silicon solar cells induced by co-firing process. Surfaces and Interfaces, 2021, 25, 101260.	3.0	3
14	Fabrication of Nanowire on micro Textured Crystalline Silicon Wafer Before and After Diffusion Process: A comparative study of solar cell performance. Materials Today: Proceedings, 2017, 4, 12678-12683.	1.8	2
15	Investigation of Optical Absorption Spectra and Scattering Efficiency of ZnO:Al Nanorods on Different Substrates. Materials Today: Proceedings, 2017, 4, 12635-12640.	1.8	0
16	Revisiting electrical performance measurement scheme of industrial crystalline silicon wafer solar cells. Materials Today: Proceedings, 2021, 39, 2042-2045.	1.8	0