

# Suchismita Mitra

## List of Publications by Year in descending order

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16  
papers

121  
citations

1478505

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1281871

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times ranked

162  
citing authors

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