

# Mrutyunjay Nayak

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

10  
papers

50  
citations

4  
h-index

6  
g-index

10  
ext. papers

69  
ext. citations

3.7  
avg, IF

2.35  
L-index

#	Paper	IF	Citations
10	Nickel Oxide Hole-Selective Heterocontact for Silicon Solar Cells: Role of SiO <sub>x</sub> Interlayer on Device Performance. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900261	7.1	17
9	Carrier-Selective Contact Based Silicon Solar Cells Processed at Room Temperature using Industrially Feasible Cz Wafers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1900208	1.6	10
8	Effect of textured silicon pyramids size and chemical polishing on the performance of carrier-selective contact heterojunction solar cells. <i>Solar Energy</i> , <b>2019</b> , 183, 469-475	6.8	9
7	Investigation of anomalous behaviour in J-V and Suns-Voc characteristics of carrier-selective contact silicon solar cells. <i>Solar Energy</i> , <b>2020</b> , 201, 307-313	6.8	5
6	Electrical characterization and defect states analysis of Ag/ITO/MoO <sub>x</sub> /n-Si/LiF <sub>x</sub> /Al carrier selective contact solar cells processed at room-temperature <b>2019</b> ,		2
5	Investigation of silicon surface passivation by sputtered amorphous silicon and thermally evaporated molybdenum oxide films using temperature- and injection-dependent lifetime spectroscopy. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 125017	1.8	2
4	Degradation study of carrier selective contact silicon solar cells with ageing: Role of silicon surface morphology. <i>Solid-State Electronics</i> , <b>2021</b> , 179, 107987	1.7	2
3	Study of anomalous S-shape in current density-voltage characteristics of carrier selective contact molybdenum oxide and amorphous silicon based heterojunction silicon solar cells <b>2019</b> ,		1
2	Carrier transport mechanisms of nickel oxide-based carrier selective contact silicon heterojunction solar cells: Role of wet chemical silicon oxide passivation interlayer. <i>Solid State Communications</i> , <b>2021</b> , 334-335, 114391	1.6	1
1	Thermal Stability Analysis of Molybdenum-Oxide-Based Carrier Selective Contact Silicon Solar Cells. <i>IEEE Transactions on Electron Devices</i> , <b>2022</b> , 1-7	2.9	1