

# Deboraj Muchahary

## List of Publications by Year in descending order

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Version: 2024-02-01

11  
papers

146  
citations

1307594

7  
h-index

1281871

11  
g-index

11  
all docs

11  
docs citations

11  
times ranked

61  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterojunction between crystalline silicon and nanocomposite coupled ZnO-SnO <sub>2</sub> and optimization of its photovoltaic performance. <i>Current Applied Physics</i> , 2022, 38, 15-21.	2.4	6
2	Investigation of Carrier Transport Materials for Performance Assessment of Lead-Free Perovskite Solar Cells. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 3217-3224.	3.0	43
3	Numerical simulation study for efficiency enhancement of doubly graded perovskite solar cell. <i>Optical Materials</i> , 2021, 118, 111285.	3.6	22
4	Carrier transport layer free perovskite solar cell for enhancing the efficiency: A simulation study. <i>Optik</i> , 2021, 243, 167492.	2.9	16
5	Performance enhancement through optimization of metal oxide electron transport layer in hybrid solar cell. <i>Optik</i> , 2021, 248, 168102.	2.9	3
6	A simulation approach to improve photocurrent through a double-layer of the emitter in a-Si <sub>1-x</sub> C <sub>x</sub> /c-Si heterojunction solar cell. <i>Superlattices and Microstructures</i> , 2020, 146, 106651.	3.1	3
7	Modelling and analysis of temperature-dependent carrier lifetime and surface recombination velocity of Si-ZnO heterojunction thin film solar cell. <i>Micro and Nano Letters</i> , 2019, 14, 399-403.	1.3	8
8	Temperature dependent study of Fin-FET drain current through optimization of controlling gate parameters and dielectric material. <i>Superlattices and Microstructures</i> , 2017, 103, 262-269.	3.1	16
9	High-efficiency thin film ZnMgO/ZnO solar cell simulation approach: Temperature dependency, BSF and efficient small signal analysis. <i>Superlattices and Microstructures</i> , 2017, 109, 209-216.	3.1	16
10	Enhancing Responsivity and Detectivity of Si-ZnO Photodetector With Growth of Densely Packed and Aligned Hexagonal Nanorods. <i>IEEE Nanotechnology Magazine</i> , 2017, 16, 939-945.	2.0	8
11	Improvement of drain current of AlGaIn/GaN-HEMT through the modification of negative differential conductance (NDC), current collapse, self-heating and optimization of double hetero structure. <i>Superlattices and Microstructures</i> , 2016, 97, 606-616.	3.1	5