Deboraj Muchahary

List of Publications by Year
in descending order

11	146	1307594 7	1281871 11
papers	citations	h-index	g-index

11	11	11	61
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation of Carrier Transport Materials for Performance Assessment of Lead-Free Perovskite Solar Cells. IEEE Transactions on Electron Devices, 2022, 69, 3217-3224.	3.0	43
2	Numerical simulation study for efficiency enhancement of doubly graded perovskite solar cell. Optical Materials, 2021, 118, 111285.	3.6	22
3	Temperature dependent study of Fin-FET drain current through optimization of controlling gate parameters and dielectric material. Superlattices and Microstructures, 2017, 103, 262-269.	3.1	16
4	High-efficiency thin film ZnMgO/ZnO solar cell simulation approach: Temperature dependency, BSF and efficient small signal analysis. Superlattices and Microstructures, 2017, 109, 209-216.	3.1	16
5	Carrier transport layer free perovskite solar cell for enhancing the efficiency: A simulation study. Optik, 2021, 243, 167492.	2.9	16
6	Enhancing Responsivity and Detectevity of Si-ZnO Photodetector With Growth of Densely Packed and Aligned Hexagonal Nanorods. IEEE Nanotechnology Magazine, 2017, 16, 939-945.	2.0	8
7	Modelling and analysis of temperatureâ€dependent carrier lifetime and surface recombination velocity of Siâ€“ZnO heterojunction thin film solar cell. Micro and Nano Letters, 2019, 14, 399-403.	1.3	8
8	Heterojunction between crystalline silicon and nanocomposite coupled ZnOÂ·SnO2 and optimization of its photovoltaic performance. Current Applied Physics, 2022, 38, 15-21.	2.4	6
9	Improvement of drain current of AlGaN/GaN-HEMT through the modification of negative differential conductance (NDC), current collapse, self-heating and optimization of double hetero structure. Superlattices and Microstructures, 2016, 97, 606-616.	3.1	5
10	A simulation approach to improve photocurrent through a double-layer of the emitter in a-Si1-xCx/c-Si heterojunction solar cell. Superlattices and Microstructures, 2020, 146, 106651.	3.1	3
11	Performance enhancement through optimization of metal oxide electron transport layer in hybrid solar cell. Optik, 2021, 248, 168102.	2.9	3