Haris Mehmood

List of Publications by Year
in descending order

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17	271	1170033 9	1255698 13
papers	citations	h-index	g-index

17	17	17	299
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Physical device simulation of dopant-free asymmetric silicon heterojunction solar cell featuring tungsten oxide as a hole-selective layer with ultrathin silicon oxide passivation layer. Renewable Energy, 2022, 183, 188-201.	4.3	8
2	Modeling and Simulations of 4H-SiC/6H-SiC/4H-SiC Single Quantum-Well Light Emitting Diode Using Diffusion Bonding Technique. Micromachines, 2021, 12, 1499.	1.4	4
3	Numerical analysis of <scp>dopantâ€free</scp> asymmetric silicon heterostructure solar cell with <scp> SiO ₂ </scp> as passivation layer. International Journal of Energy Research, 2020, 44, 10739-10753.	2.2	8
4	Performance optimization of CH3NH3Pb(I1-xBrx)3 based perovskite solar cells by comparing different ETL materials through conduction band offset engineering. Optical Materials, 2020, 105, 109897.	1.7	74
5	Electrical, optical and surface characterization of reactive RF magnetron sputtered molybdenum oxide films for solar cell applications. Materials Science in Semiconductor Processing, 2019, 101, 46-56.	1.9	24
6	Simulation of silicon heterostructure solar cell featuring dopant-free carrier-selective molybdenum oxide and titanium oxide contacts. Renewable Energy, 2019, 143, 359-367.	4.3	27
7	Physical device modelling of emitterâ€“base junction of In0.52Al0.48As/In0.53Ga0.47As-based SHBTs. International Journal of Electronics, 2019, 106, 1710-1725.	0.9	0
8	A miniaturized meandered printed monopole antenna for triband applications. Microwave and Optical Technology Letters, 2018, 60, 1265-1271.	0.9	19
9	Simulation of an efficient silicon heterostructure solar cell concept featuring molybdenum oxide carrier-selective contact. International Journal of Energy Research, 2018, 42, 1563-1579.	2.2	34
10	Recent progress in silicon-based solid-state solar cells. International Journal of Electronics, 2018, 105, 1568-1582.	0.9	13
11	Design and analysis of an ultraâ€thin crystalline silicon heterostructure solar cell featuring SiGe absorber layer. IET Circuits, Devices and Systems, 2018, 12, 309-314.	0.9	11
12	Dependence of n-cSi/MoOx Heterojunction Performance on cSi Doping Concentration. Energy Procedia, 2017, 124, 418-424.	1.8	17
13	Performance enhancement of AlGaN/InGaN MQW LED with GaN/InGaN superlattice structure. IET Optoelectronics, 2017, 11, 156-162.	1.8	8
14	Modelling and performance analysis of amorphous silicon solar cell using wide band gap ncâ€Si:H window layer. IET Circuits, Devices and Systems, 2017, 11, 666-675.	0.9	11
15	Physical device simulation of partial dopant-free asymmetric silicon heterostructure solar cell (P-DASH) based on hole-selective Molybdenum oxide (MoOx) with Crystalline Silicon (cSi). , 2017, , .		7
16	Effect of Hole-Selective Molybdenum Oxide Work Function and Silicon Wafer Resistivity on Dopant-Free Asymmetric Silicon Heterostructure Solar Cell. , 2017, , .		4
17	Theoretical Studies of InGaN/GaN Multiple Junction Solar Cell with Enhanced Tunneling Junction Diode. Advanced Materials Research, 0, 895, 535-538.	0.3	2