Kumar Mallem

List of Publications by Year
in descending order

11 papers	153 citations	1307594 7 h-index	1474206 9 g-index
11 all docs	11 docs citations	11 times ranked	187 citing authors

#	Article	IF	Citations
1	Molybdenum oxide: A superior hole extraction layer for replacing p-type hydrogenated amorphous silicon with high efficiency heterojunction Si solar cells. Materials Research Bulletin, 2019, 110, 90-96.	5.2	40
2	Influence of small size pyramid texturing on contact shading loss and performance analysis of Ag-screen printed mono crystalline silicon solar cells. Materials Science in Semiconductor Processing, 2018, 85, 68-75.	4.0	35
3	Ambient annealing influence on surface passivation and stoichiometric analysis of molybdenum oxide layer for carrier selective contact solar cells. Materials Science in Semiconductor Processing, 2019, 91, 267-274.	4.0	21
4	Using the light scattering properties of multi-textured AZO films on inverted hemisphere textured glass surface morphologies to improve the efficiency of silicon thin film solar cells. Applied Surface Science, 2018, 447, 866-875.	6.1	18
5	Efficient light trapping for maskless large area randomly textured glass structures with various haze ratios in silicon thin film solar cells. Solar Energy, 2018, 173, 1173-1180.	6.1	12
6	Effects of post deposition annealing atmosphere on interfacial and electrical properties of HfO2/Ge3N4 gate stacks. Thin Solid Films, 2019, 675, 16-22.	1.8	10
7	Versatile Hole CarrierÂSelective MoOx Contact for High Efficiency Silicon Heterojunction Solar Cells: A Review. Transactions on Electrical and Electronic Materials, 2019, 20, 1-6.	1.9	8
8	Advanced Light scattering through various textured glass surface morphologies in thin film silicon solar cells. , 2018, , .		4
9	Effects of post-metallisation annealing on surfaceâ€“interfacial and electrical properties of HfO₂/Ge stacks modified <i>in situ</i> with SiO₂ interfacial layer. Materials Research Express, 2019, 6, 086442.	1.6	2
10	Influence of Ultra-Thin Ge₃N₄ Passivation Layer on Structural, Interfacial, and Electrical Properties of HfO₂/Ge Metal-Oxideâ€“Semiconductor Devices. Journal of Nanoscience and Nanotechnology, 2020, 20, 1039-1045.	0.9	2
11	Influence of molybdenum oxide thickness, electronic structure, and work function on the performance of hole selective silicon heterojunction solar cells. , 2019, , .		1