Richard R King

List of Publications by Year
in descending order

19	244	1477746 6	1199166 12
papers	citations	h-index	g-index

19	19	19	358
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	GaAs thermophotovoltaic patterned dielectric back contact devices with improved sub-bandgap reflectance. Solar Energy Materials and Solar Cells, 2022, 238, 111545.	3.0	6
2	Thermal Impact of Rear Insulation, Light Trapping, and Parasitic Absorption in Solar Modules. IEEE Journal of Photovoltaics, 2022, 12, 1043-1050.	1.5	2
3	Photovoltaics in the built environment: A critical review. Energy and Buildings, 2021, 253, 111479.	3.1	35
4	Study of pit formation in MBE grown GaP on misoriented Si. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 032201.	0.6	1
5	Investigation of polycrystalline GaxIn1â€‰â€”â€‰xP for potential use as a solar cell absorber with tunable bandgap. Journal of Applied Physics, 2020, 127, 073102.	1.1	3
6	Silicon Degradation in Monolithic IIâ€“VI/Si Tandem Solar Cells. IEEE Journal of Photovoltaics, 2020, 10, 690-695.	1.5	6
7	Effect of Substrate Resistivity, Defects and Temperature on Silicon Heterojunction Solar Cells Performance. , 2020, , .		2
8	Atomic Structure of Extended Defects in GaAs-based Heterostructures. Microscopy and Microanalysis, 2019, 25, 2022-2023.	0.2	0
9	Carrier-selective contact GaP/Si solar cells grown by molecular beam epitaxy. Journal of Materials Research, 2018, 33, 414-423.	1.2	14
10	Developing High Performance GaP/Si Heterojunction Solar Cells. Journal of Visualized Experiments, 2018, , .	0.2	4
11	A Lattice-Matched GaNP/Si Three-Terminal Tandem Solar Cell. , 2018, , .		7
12	Analysis of the recombination mechanisms of a silicon solar cell with low bandgap-voltage offset. Journal of Applied Physics, 2017, 121, .	1.1	57
13	Investigation of Fast Growth GaAs-based Solar Cell on Reusable Substrate by Metalorganic Chemical Vapor Deposition. , 2017, , .		0
14	Bismuth Surfactant-Mediated Growth of GaNAsSb(Bi) Solar Cells. , 2017, , .		1
15	Carrier localization effects in GaAs1â^'xSbx/GaAs heterostructures. Journal of Applied Physics, 2016, 120, 183104.	1.1	13
16	Growth and characterization of GaAs1â^'xâ^'ySbxNy/GaAs heterostructures for multijunction solar cell applications. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	0.6	9
17	1-eV GaNAsSb for multijunction solar cells. , 2016, , .		4
18	Hetero-emitter GaP/Si solar cells with high Si bulk lifetime. , 2016, , .		14

#	Article	IF	Citations
19	Metamorphic epitaxy for multijunction solar cells. MRS Bulletin, 2016, 41, 202-209.	1.7	66