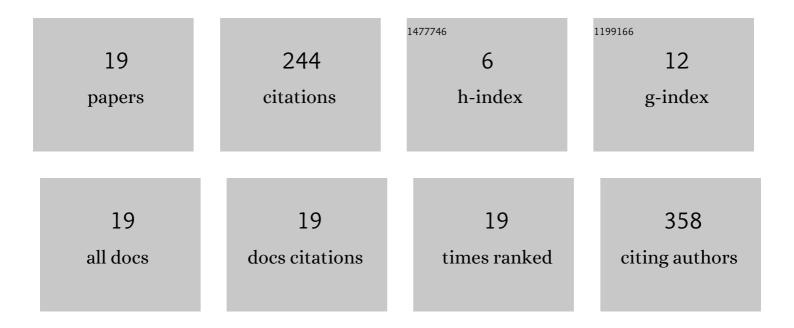
## **Richard R King**

List of Publications by Year in descending order

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RICHARD R KINC

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Metamorphic epitaxy for multijunction solar cells. MRS Bulletin, 2016, 41, 202-209.  | 1.7 | 66        |
| 2  | Analysis of the recombination mechanisms of a silicon solar cell with low bandgap-voltage offset.<br>Journal of Applied Physics, 2017, 121, .  | 1.1 | 57        |
| 3  | Photovoltaics in the built environment: A critical review. Energy and Buildings, 2021, 253, 111479.  | 3.1 | 35        |
| 4  | Hetero-emitter GaP/Si solar cells with high Si bulk lifetime. , 2016, , .  |     | 14        |
| 5  | Carrier-selective contact GaP/Si solar cells grown by molecular beam epitaxy. Journal of Materials<br>Research, 2018, 33, 414-423.   | 1.2 | 14        |
| 6  | Carrier localization effects in GaAs1â^'xSbx/GaAs heterostructures. Journal of Applied Physics, 2016,<br>120, 183104.  | 1.1 | 13        |
| 7  | Growth and characterization of GaAs1â^'xâ^'ySbxNy/GaAs heterostructures for multijunction solar cell<br>applications. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics,<br>2016, 34, . | 0.6 | 9         |
| 8  | A Lattice-Matched GaNP/Si Three-Terminal Tandem Solar Cell. , 2018, , .  |     | 7         |
| 9  | Silicon Degradation in Monolithic II–VI/Si Tandem Solar Cells. IEEE Journal of Photovoltaics, 2020, 10,<br>690-695.  | 1.5 | 6         |
| 10 | GaAs thermophotovoltaic patterned dielectric back contact devices with improved sub-bandgap reflectance. Solar Energy Materials and Solar Cells, 2022, 238, 111545.  | 3.0 | 6         |
| 11 | 1-eV GaNAsSb for multijunction solar cells. , 2016, , .  |     | 4         |
| 12 | Developing High Performance GaP/Si Heterojunction Solar Cells. Journal of Visualized Experiments, 2018, , .  | 0.2 | 4         |
| 13 | Investigation of polycrystalline GaxIn1 â~ xP for potential use as a solar cell absorber with tunable<br>bandgap. Journal of Applied Physics, 2020, 127, 073102.   | 1.1 | 3         |
| 14 | Effect of Substrate Resistivity, Defects and Temperature on Silicon Heterojunction Solar Cells<br>Performance. , 2020, , .   |     | 2         |
| 15 | Thermal Impact of Rear Insulation, Light Trapping, and Parasitic Absorption in Solar Modules. IEEE<br>Journal of Photovoltaics, 2022, 12, 1043-1050.   | 1.5 | 2         |
| 16 | Bismuth Surfactant-Mediated Growth of GaNAsSb(Bi) Solar Cells. , 2017, , .   |     | 1         |
| 17 | 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         |
| 18 | Investigation of Fast Growth GaAs-based Solar Cell on Reusable Substrate by Metalorganic Chemical<br>Vapor Deposition. , 2017, , .   |     | 0         |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Atomic Structure of Extended Defects in GaAs-based Heterostructures. Microscopy and Microanalysis, 2019, 25, 2022-2023. | 0.2 | 0         |