

## Optimization of Heterojunction Solar Cell Using AMPS-1D

**Authors :** Benmoussa Dennai, H. Benslimane, A. Helmaoui

**Abstract :** Photovoltaic conversion is the direct conversion of electromagnetic energy into electrical energy continuously. This electromagnetic energy is the most solar radiation. In this work we performed a computer modelling using AMPS 1D optimization of hetero-junction solar cells GaInP / GaAs configuration for p / n. We studied the influence of the thickness the base layer in the cell offers on the open circuit voltage, the short circuit current and efficiency.

**Keywords :** optimization, photovoltaic cell, GaInP / GaAs AMPS-1D, hetetro-junction

**Conference Title :** ICSRD 2020 : International Conference on Scientific Research and Development

**Conference Location :** Chicago, United States

**Conference Dates :** December 12-13, 2020