

Jordan University of Science and Technology

Integrating Transparent and Conventional Solar Cells TSC/SC

Authors: Moh'd Al-Nimr, Abdallah Milhemb, Basel Bishawi, Khaleel Al Khasawneh

Abstract: What makes TSCs (Transparent solar cells) special is their ability to absorb and utilize unwanted light energy such as ultraviolet and near infrared light. Combining TSC with a regular PV cell can harvest the entire light energy, however there are certain design limitations that must be considered. The primary objective in this paper is to acknowledge and analyze the primary conditions in order to achieve the highest efficiency regarding the combination of TSC and a PV cell.