

## **Efficiency performance effect of TiO<sub>2</sub> thickness deposited on FTO coated glass photoanode**

### **ABSTRACT**

This paper presents the fabrication and thickness analysis of TiO<sub>2</sub> on Fluorine-doped Tin Oxide (FTO) glass for Dye-Sensitized Solar Cell (DSSC). The TiO<sub>2</sub> layer was deposited on the cleaned FTO glass using doctor blade technique and the thickness of the TiO<sub>2</sub> were controlled by with different layers of adhesive tape. This results showed that the two-layer with thickness 15.09 μm of adhesive tape achieved the highest efficiency of 4.73 %, and followed by three-layer and one-layer at 3.64% at 2.32 % respectively.

**Keyword:** FTO; Dye-sensitized solar cell; TiO<sub>2</sub>; Thickness; Photoanode