

Abstract

In this research I have worked on the preparation of thin film dye sensitized TiO₂ solar cell at laboratory scale. For this purpose, I have prepared two electrodes on two different conductive glass plates. One electrode having thin film of TiO₂ suspension made in dilute solution of acetic acid and annealed on hot plate for about 15 minutes. The counter electrode having carbon coating on its conductive side was prepared by preparing a thin layer of carbon by placing it over a candle for some time. TiO₂ coated glass plate was stained in raspberry solution. Electrolyte used was iodide solution. Finally output of solar cell was observed under overhead projector and direct sunlight.