
In the present study, spray pyrolysis was used to deposit undoped and cerium (Ce) doped cadmium oxide (CdO) thin films with doping concentrations (3, 5 and 7 wt %) films on ...

Thin film solar cells have emerged as a promising technology in the field of photovoltaics due to their potential for reduced material usage, flexibility, and lower ...

The present work seeks to add to the literature based on CdTe by investigating the properties of As-doped CdTe solar cells under concentrated illumination (<7 Suns) and ...

Thin-film solar cells are more promising for low-cost and large-area photovoltaic devices. Tremendous efforts have been invested in using cadmium telluride (CdTe), copper ...

Scientists at the Korea Institute of Energy Research (KIER) have developed a CIGS solar cell with ultra-thin glass (UTG), an emerging substrate known for its exceptional ...

PV solar cells based on CdTe represent the largest segment of commercial thin-film module production worldwide. Recent improvements have matched the efficiency of ...

Using spray pyrolysis, cadmium oxide [CdO] sheets were formed on glass substrate. At a temperature of 300 °C, transparent and conducting CdO films are formed. An ...

Cadmium Oxide thin films have been prepared on a glass substrate at 350 0 C temperature by implementing the Spray Pyrolysis method. The direct and indirect band gap ...

Scientists at the Korea Institute of Energy Research (KIER) have developed a CIGS solar cell with ultra-thin glass (UTG), an ...

Several substrate materials, including rigid glass, ultra-thin glass, flexible metal foils, and polyimide, have been reported by previous researchers as being used throughout the ...

This study successfully demonstrated high-efficiency Cu (In,Ga)Se2 (CIGSe) thin-film solar cells on flexible ultra-thin glass (UTG) substrates, balancing mechanical flexibility ...

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