

Since Dye-Sensitized Solar Cells (DSSCs) was created, a versatile and cost-effective alternative among photovoltaic technology options for power generation and energy transition to combat climate change ...

This review provides a concise overview of the recent advances taking place in the DSSCs research field, including molecular engineering technologies, the quest for superior carrier ...

In this review, we provide a comprehensive analysis of DSSC applications by classifying them into indoor and outdoor categories. The objective is to evaluate how DSSCs transition from ...

This review briefly describes the working mechanism of DSSC and the enhancement of optical and electrical properties by incorporating different materials used in various components.

In this review, the dyes generally utilized in DSSC are discussed. The DSSC criteria and components are explained, and the progress in inorganic and natural dyes is monitored.

This article provides an in-depth review on DSSC construction, operating principle, key problems (low efficiency, low scalability, and low stability), prospective efficient materials, and finally a brief insight ...

Among all organic solar cells, Dye-Sensitized Solar Cells (DSSCs) are the most efficient, low cost and easily implemented technology.

Comparative Study of Dye-Sensitized Solar Cells with Natural Dye Extracts of *Vernonia amygdalina*, *Goeppertia macrosepala* Leaves, and *Cnestis ferruginea* Fruit as Photosensitizers.

Abstract Dye-sensitized solar cells (DSCs) are celebrating their 30th birthday and they are attracting a wealth of research efforts aimed at unleashing their full potential.

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