

Enhancement of the photoproperties of solid-state $\text{TiO}_2|\text{dye}|\text{CuI}$ cells by coupling of two dyes

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Abstract

The electronic coupling of a natural pigment extracted from pomegranate fruits (rich with cyanin and exist as flavylum at natural P_H) with an organic dye mercurochrome enhanced the performance of solid-state $\text{TiO}_2|\text{dye}|\text{CuI}$ -type photovoltaic cells sensitized from pomegranate pigments or mercurochrome individually.