

Dye-sensitized solar cell using a natural dye extracted from *Artocarpus lacucha*

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Dye-sensitized solar cells (DSSCs) is fabricated from a combination of relatively popular materials containing nanocrystalline TiO_2 , electrolyte solution containing I^-/I_3^- redox mediator, counter electrode, and natural dye. In this work, the natural dye extract from *Artocarpus lacucha* with methanol solvent as sensitizers. The photo to current conversion efficiency ($\eta = 0.69\%$) was obtained by *Artocarpus lacucha* under AM 1.5 illumination. The short circuit photo-current density (J_{sc}), open circuit voltage (V_{oc}) and fill factor (FF) are 2.01 mAcm^{-2} , 0.57V and 0.60 , respectively.

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