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A Dye-Sensitized solar cell with phthaloyl chitosan based gel polymer electrolyte



▶ MORE INFORMATION

MEGA-TREND

- Future Global Power Generation

TECHNOLOGY READINESS LEVEL (TRL)

- TRL 5

PATENT/ GRANTED NUMBER

- MY-175721-A

▶ TECHNOLOGY OVERVIEW

A dye-sensitized solar cell comprising a photo electrode, a counter electrode, a sensitizer and an electrolyte layer. The photo electrode includes a compact semiconductor layer and a porous semiconductor layer. The compact semiconductor layer and the porous semiconductor layer are disposed on a conducting glass. Further, the sensitizer is coupled to the porous semiconductor layer and the electrolyte layer is disposed between the photo electrode and the counter electrode. Furthermore, the electrolyte layer contains a primary polymer host and a secondary polymer host, at least two non-volatile polymer solvents and a redox couple. More particularly, the primary polymer host is phthaloyl chitosan.

CONTACT US!

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