

Are flexible photovoltaics (PVs) beyond Silicon possible?

Recent advancements for flexible photovoltaics (PVs) beyond silicon are discussed. Flexible PV technologies (materials to module fabrication) are reviewed. The study approaches the technology pathways to flexible PVs beyond Si. For the previous few decades, the photovoltaic (PV) market was dominated by silicon-based solar cells.

What are the application fields of photovoltaic (PV) modules?

The application fields of photovoltaic (PV) modules have gradually expanded from single ground power stations and rooftop distributed power stations to transportation, automobiles and boats[,,].

What is photovoltaic (PV) technology?

The novel PV material was demonstrated in design driven prototypes ranging from solar charged mobile devices, solar lighting, and building integrated PV to full integration in textiles. Photovoltaic (PV) is widely recognized as one of the key technologies for the future energy supply.

What is a custom designed PV material?

A custom designed PV material opens up for an entirely new market and ranges of products within high levels of design under competitive prices. The SolarDesign Project has received funding from the European Union's Seventh Framework Programme (FP7/2007-2013) under Grant Agreement No. 310220.

How much weight does a single-glass PV module take up?

Normally, the weight of glass in the single-glass PV module takes up about 70% of the entire photovoltaic module. Therefore, only by finding alternative materials for photovoltaic glass can it be possible to effectively address the weight issue of PV modules.

Should photovoltaic systems be integrated as building components?

Conventional integration of photovoltaic as building components normally fell into a common dilemma in-between the unsatisfactory available PV product and the precious demand of the integration design. The result is either the abandonment of PV application or a curt imposing of immature product.

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