

CÉLULAS SOLARES SENSIBILIZADAS POR CORANTE – PAVING THE WAY TO COMMERCIALIZATION



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Abstract

The electric power produced by photovoltaic panels is already very close to the electricity market price. Photovoltaics have the ability to produce electricity where it is consumed, using buildings as support. New technologies are emerging with the ability to merge into buildings' structure. Dye sensitized solar cells (DSC) belong to the so-called third generation of photovoltaic cells and are front positioned to lead the building-integrated photovoltaic (BIPV) market. DSCs are very aesthetic, with various patterns and colors, and show a unique ability to harvest efficiently the diffuse sunlight, making them suitable for façades.