

Are transparent luminescent solar concentrators based on Stokes-shift nanocluster phosphors?

Zhao, Y. & Lunt, R. R. Transparent luminescent solar concentrators for large-area solar windows enabled by massive Stokes-shift nanocluster phosphors. *Adv. Energy Mater.* 3, 1143-1148 (2013).

Why is luminescence imaging important for PV module quality assurance?

Due to the rich and detailed information provided by luminescence imaging measurements and modern image analysis methods, luminescence imaging is becoming an increasingly important tool for PV module quality assurance in PV power plants.

What are the defect types of PV modules?

Figure 6. Night-time EL images of PV modules with different defect types: (a) half-cell mono-crystalline Si module with backsheet scratch; (b) multi-crystalline module with heavy cell cracking; and (c) ten year-old multi-crystalline Si module with strong PID (taken with an InGaAs camera due to the very low luminescence signal).

Are luminescent solar concentrators 'invisibly' integrating semi-transparent photovoltaic elements into a building?

Luminescent solar concentrators (LSCs) offer a unique opportunity to 'invisibly' integrate semi-transparent photovoltaic architectural elements, such as electrodeless glazing units, into the building envelope.

Can a PV module be imaged at the same time?

On the other hand, for the detection of large defects (like PID), it is possible to image entire strings of modules at once, hence, a significantly increased throughput. PV string imaging is illustrated in figure 12(c) also displaying a close-up image of one of the modules highlighted with the blue rectangle.

Why are LSCs less sensitive than silicon PV modules?

In particular, LSCs are less sensitive than silicon PV modules to their orientation angle, and the indirect illumination of the perimeter cells by the waveguide makes LSCs nearly unaffected by efficiency losses and electrical stresses caused by shadowing effects that occur in bulk and thin-film PVs.

Mono PERC half-cut solar panels consist of solar cells that are cut in half in order to improve the panel's performance and durability. When the panels are halved, the current also gets halved, ...

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In order to solve the problem that the influence of light intensity on solar cells is easily affected by the



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complexity of photovoltaic cell parameters in the past, it is proposed ...

Advanced light management techniques can enhance the sunlight absorption of perovskite solar cells (PSCs). When located at the front, they may act as a UV barrier, which is ...

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