
Cobalt solar glass

What is the most stable cobalt-DSSC device?

Encouraged by the ability of cobalt-DSSCs to deliver high PCEs under sunlight and artificial illumination,⁽⁴²⁾ we report the most stable cobalt-DSSC device (M-DSSC) obtained by robust and exceptionally hermetic glass encapsulation.

What is a cobalt complex redox shuttle?

A cobalt complex redox shuttle for dye-sensitized solar cells with high open-circuit potentials.

Do cobalt ions affect PCE?

This is one of the most impressive conclusions of this report; after increasing interfacial charge transfer, dye desorption, and concentration gradient of cobalt ions over the cell cavity, the overall PCE only slightly deteriorated or even remained unaffected.

Can a liquid-junction cobalt m-DSSC be encapsulated with ACN?

Hermetic encapsulation of liquid-junction cobalt M-DSSCs with ACN is absolutely essential for a stable PV response under ISOS testing conditions. Glass-encapsulated M-DSSCs showed fully stable PCE in the dark and under continuous operation under artificial light.

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This study investigates copper-doped cobalt oxide as an efficient photocatalyst for the degradation of Eosin Yellow (anionic; EY) and Fuchsin Basic (cationic; FB) dyes. Cu-doped ...

The produced glass samples can be employed as photovoltaic solar cells since the addition of cobalt and La³⁺ ions increases the refractive index values and creates a high ...

Solar Energy Materials and Solar Cells 31 (1993) 109-117 North-Holland Solar Energy Materials and Solar Cells Cobalt oxide selective coatings for all glass evacuated ...

This study reports on the exceptional stability of cobalt-mediated dye-sensitized solar cells (DSSCs) assembled in a monolithic configuration with a carbon counter electrode ...

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Cobalt glass photovoltaics represent a viable path for solar efficiency breakthroughs, particularly in space-constrained urban environments. With proven performance advantages and growing ...

The formation of the mixed valence states of cobalt ions (Co²⁺ /Co³⁺) in octahedral (oh) and tetrahedral (Td) geometric forms inside the glass network makes it a ...

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