

SolarTech Power Solutions

Chemical chromium solar panels



Overview

Scientists have found a way to make solar panels and phone screens from readily available chromium. This is according to a report by The Independent published on Monday. Can solar energy reduce hexavalent chromium?

Harnessing Solar Energy for the Photocatalytic Reduction of Hexavalent Chromium: A High-Performance *Yarrowia lipolytica*-CdS Biohybrid System.

Can a yeast-based biohybrid remove chromium under UV irradiation?

However, few yeast-based biohybrid systems for pollutant removal were reported. In this study, we have constructed a whole-cell biohybrid system based on *Yarrowia lipolytica* featuring in situ synthesized biocompatible cadmium sulfide (CdS) nanoparticles (NPs) for the photocatalytic reduction of hexavalent chromium [Cr (VI)] under UV irradiation.

How efficient is a copper indium gallium selenide solar cell?

Keller, J. et al. High-concentration silver alloying and steep back-contact gallium grading enabling copper indium gallium selenide solar cell with 23.6% efficiency. *Nat. Energy* 9, 467–478 (2024). Fiducia, T. A. M. et al. Understanding the role of selenium in defect passivation for highly efficient selenium-alloyed cadmium telluride solar cells.

Should PV modules be made out of crystalline silicon?

Even though modules made from crystalline silicon (c-Si or just Si) dominate the market (97% at the end of 2023), important changes are needed to achieve the foremost goal of PV: to achieve even more power output per unit area, or in other words, higher efficiency.

Is solar-cell technology 'green'?

Although solar-cell technology is usually presented as being 'green', there are still several environmental and sustainability concerns that need to be addressed. In reality, no solar-cell technology can immediately qualify as

'green' in terms of zero or negative fossil-fuel use, CO₂ emissions or recyclability.

Do rubidium cations improve photovoltaic performance?

Saliba, M. et al. Incorporation of rubidium cations into perovskite solar cells improves photovoltaic performance. *Science* 354, 206–209 (2016). Abdi-Jalebi, M. et al. Maximizing and stabilizing luminescence from halide perovskites with potassium passivation. *Nature* 555, 497–501 (2018).

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