

Antimony chalcogenide-based thin-film solar cells have received immense attention for terrestrial and space photovoltaic (PV) applications due to their excellent optoelectronic properties, ...

Antimony sulfide (Sb_2S_3) is an emerging wide bandgap semiconductor material with outstanding optoelectronic properties and potential applications for cost-effective and low-toxicity ...

In solar panels, this mineral enhances the efficiency of perovskite solar cells by improving light absorption and charge transport. This results in higher energy conversion rates, making solar ...

In solar panels, particularly perovskite solar cells, antimony enhances light absorption and charge transport. This leads to improved energy conversion rates, which means that solar ...

Liquid-metal batteries, a promising solution for storing solar energy, depend on antimony's unique properties. These batteries enable efficient capture and distribution of excess ...

Researchers at University of Toledo produced antimony sulfide (Sb_2S_3) thin film solar cells with 7.69% power conversion efficiency after determining optimal hydrothermal deposition, post ...

This article explores a new process for extracting valuable antimony from the glass of solar panels, aimed at solving disposal challenges in the 2030s.

The demand for antimony from the photovoltaic industry is expected to increase by 325% between 2021 and 2026, from 16,000 tons to 68,000 tons, and its proportion of total consumption will ...

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