Helsinki solar Glass Layer Research and Development

Coatings produced through atomic layer deposition are used in roughly 30% of silicon-based solar panels. The ALD group headed by Professor Mikko Ritala at the University of Helsinki has achieved ...

Our approach relies on atomic layer deposition (ALD), a unique method that enables the deposition of uniform films on large areas. The work will be done at the department of chemistry, University of ...

Expanding solar power into new application areas requires physical flexibility that brittle silicon cannot provide, creating opportunities for new solar cell materials. Over the last decade, ...

The aim of this study is to assess the potential of large-scale utilization of solar panels on the roofs of Helsinki, Finland. First, a literature review is conducted on the topics of solar power and spatial ...

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Our main research topic is Atomic Layer Deposition (ALD) but also other methods for thin film deposition and nanostructure preparation are studied. After starting in 1991, our group has become a worldwide ...

In cooperation of GMB and Fraunhofer ISE, a back-sheet solar glass with specialized optical properties was developed by raytracing simulations and optical measurements of the incident lights.

In this study, we present a promising combination of glass photonics and photovoltaics to develop more efficient types of solar cells.

This review looks at the field of anti-reflection coatings for solar modules, from single layers to multilayer structures, and alternatives such as glass texturing.

Despite the abundance of solar radiation, significant energy losses occur due to scattering, reflection, and thermal dissipation. Glass mitigates these losses by functioning as a ...

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