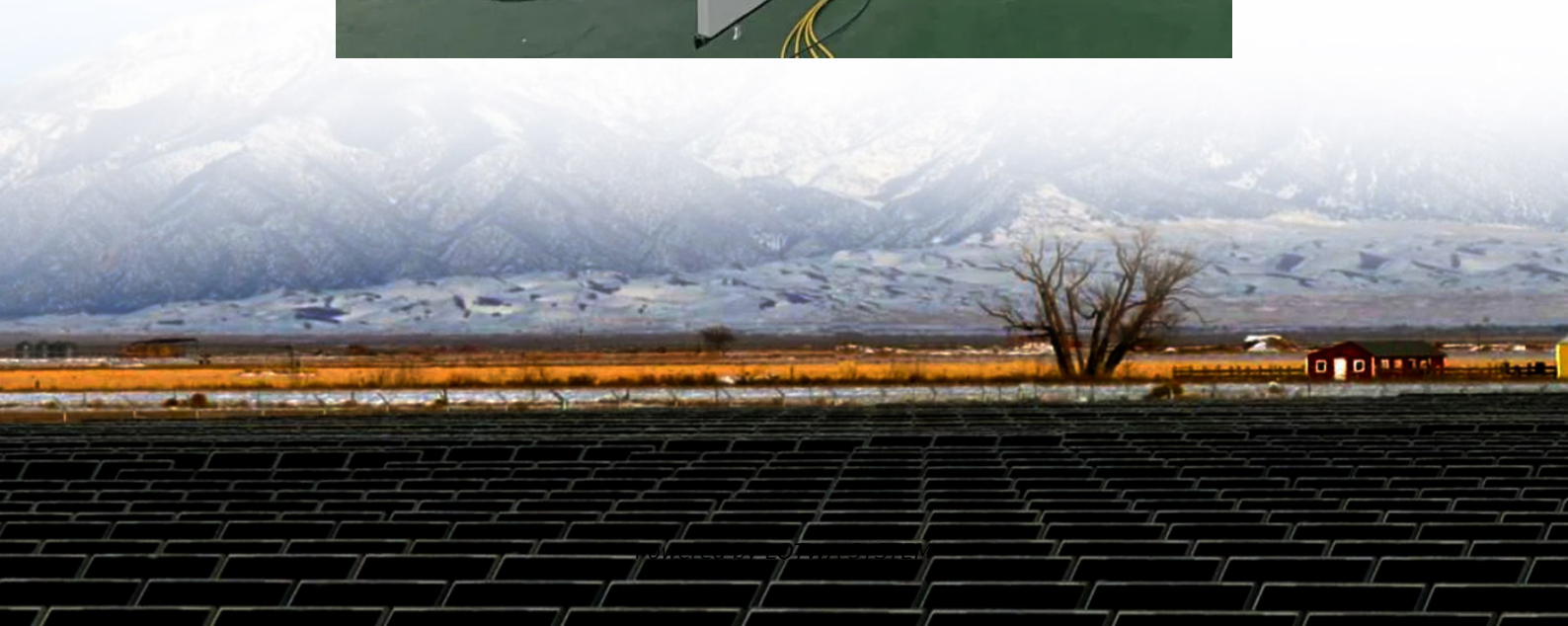


# **Thin-film double-glass components**





## Overview

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In this context, glass functionalization by multilayer coatings has received considerable research interest because of the potential to adjust glass properties to specific performance requirements. This review.

What are thin films & thin-film systems on glass?

The properties of technical and commercially significant thin films and thin-film systems on glass, such as electrically conducting oxides, antireflection, low-emissivity coatings, and for devices with variable characteristics, are discussed in greater depth along with their main applications to optoelectronics and glazing.

Are multilayer thin films used in the design of multifunctional glass?

Multilayer thin films are increasingly used in the design of multifunctional glass. Review on synthesis and characterization strategies for multilayer structures. Review on main applications of multilayer films in the glass functionalization. The synergic interaction between the different layers is highlighted.

What is a multilayer thin film?

Multilayer thin films constitute an active research domain in the field of smart glass, which is currently experiencing a booming development.

What is a solid thin film?

The solid thin film, whether organic, inorganic, or hybrid, often referred to as “smart coating”, is able to accomplish a well-defined set of functions following particular intrinsic characteristics or extrinsic stimuli .



## Thin-film double-glass components

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Solution processed multi-layered thin films of Ge<sub>20</sub>Sb<sub>5</sub>Se<sub>75</sub> ...

Oct 3, 2023 · Solution based deposition of non-toxic Ge<sub>20</sub>Sb<sub>5</sub>Se<sub>75</sub> thin films in specular optical quality significantly widens the applicability of solution processed chalcogenide glass thin films.

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Design, fabrication, and physical properties analysis of ...

Sep 1, 2024 · Combining low-E thin-film coating and lamination can result in shatter-proof (security) energy-efficient glass panels that enable significant energy savings and lower ...

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Double layer SiO<sub>2</sub>-TiO<sub>2</sub> sol-gel thin films on ...

Double layer thin films, mechanically stable and adhering to glass, were produced through the sol-gel process, using tetraethyl orthosilicate and ...

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Structural and morphological ...

Hence, the present paper is focused on synthesis of lead phosphate glass by sol gel route and deals with extended structural investigations of in situ ...

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Review on thin film coatings for precision glass molding

Aug 26, 2024 · 5 Abstract 6 Precision glass molding (PGM) is an advanced glass manufacturing technology employed rge-scale pro 8 components. One of the key breakthroughs is the use of ...

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Multilayer thin film structures for multifunctional glass: Self

Apr 15, 2020 · In this context, glass functionalization by multilayer coatings has received considerable research interest because of the potential to adjust glass properties to specific ...

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Embedded thin film fabrication via glass welding by an ...

Aug 22, 2023 · In addition, double-layer films of two glass substrates can be simultaneously formed by the up and down movement of plasma, and we can make diferent functional thin ...

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Glass Thin Films: From Deposition to Integrated Photonic ...

Jul 9, 2025 · How do we create glass-based devices that are not only thin enough to be seamlessly integrated into lab-on-chip, but also retain the optical characteristics required for ...

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Double layer SiO<sub>2</sub>-TiO<sub>2</sub> sol-gel thin films on glass for ...

Double layer thin films, mechanically stable and adhering to glass, were produced through the sol-gel process, using tetraethyl orthosilicate and titanium butoxide as precursors.

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Structural and morphological characterizations of glass ...

Hence, the present paper is focused on synthesis of lead phosphate glass by sol gel route and deals with extended structural investigations of in situ loaded lead phosphate glass thin films. ...

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## Overview

Aug 28, 2017 · usion of glass components into a neighbouring reser voir. Moreover, thin films increa e the strength of glass in high-temperature applications. Metal coatings convert the ...

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## Thin-Film Technologies for Glass Surfaces

Feb 1, 2021 · The properties of technical and commercially significant thin films and thin-film systems on glass, such as electrically conducting oxides, antireflection, low-emissivity ...

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