

Conspectus Well-constructed porous materials take an essential role in a wide range of applications, including energy conversion and storage systems, electrocatalysis, ...

Physics Department and Millennium Institute for Research in Optics (MIRO), Faculty of Science, University of Santiago of Chile (USACH), Santiago, Chile Inclination to exploit renewable energy and their potential ...

If you're an engineer working on grid-scale batteries, a sustainability officer in heavy industries, or simply a tech enthusiast curious about energy storage substrate steel, this ...

PLATYPUS gold-coated substrates are prepared in an electron beam evaporator in a dedicated clean environment, to prevent contamination of the gold film, and using a titanium adhesion layer on plasma cleaned surfaces.

Conspectus Well-constructed porous materials take an essential role in a wide range of applications, including energy conversion and storage systems, electrocatalysis, photocatalysis, and sensing. Although the tailored ...

The instability of iron under anodic conditions makes iron-based electrode substrates unsuitable for alkaline electrolyzers and rechargeable alkaline batteries. Therefore, ...

Covalent-organic frameworks (COFs) are emerging organic crystalline materials with a porous framework that extends into two or three dimensions. Originating from their versatile and rigorous synthesis conditions, ...

Introduction A simple route for developing various metal and semiconductor nanostructures is one of the major challenges in materials research, which has a significant impact in the fields of energy storage and ...

Stainless steel, a cost-effective material comprising Fe, Ni, and Cr with other impurities, is considered a promising electrode for green electrochemical energy storage and ...

Electrochemical energy storage using slurry flow electrodes is now recognised for potentially widespread applications in energy storage and power supply. This study provides a ...

Peter et al. provide a comprehensive overview of growth defects resulting from substrate imperfections and foreign particles like dust or debris in PVD coatings [28]. ...

Carbon nanotube-based materials are gaining considerable attention as novel materials for renewable energy conversion and storage. The novel optoelect...

Recently, the development of architecturally reformed metal-oxide hetero-architectures with enhanced energy characteristics has sparked substantial research interest. In this work, we ...

This study proposes a new method using stainless steel (SUS) substrates to replace traditional copper substrates, aiming to significantly enhance the electrochemical ...

Why Efficient Energy Storage Substrates Are the New Gold Rush Let's face it - our renewable energy dreams would crash harder than a crypto exchange without efficient storage substrates ...

Here, progress regarding development of photovoltaic and energy storage devices on cellulosic substrates, where one or more of the main material layers are deposited via solution ...

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