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The remarkable activity inherent in plasma technology imbues it with distinct advantages in surface modification, functionalization, synthesis, and interface engineering of materials.

Herein, recent developments in plasma-assisted synthesis (e.g., plasma conversion, milling, deposition, and exfoliation) and plasma-assisted modification (e.g., plasma etching, doping, and other surface ...

Non-fossil-fuel forms of chemical energy are constantly being sought as both reserve storage for power production as well as portable replacements for fossil fuels like gasoline.

Plasma technology offers innovative solutions to enhance the efficiency, capacity, and lifespan of energy storage systems. Here's a detailed look at how plasma technology can ...

Plasma is generated by electric power and can easily be switched on/off, making it, in principle, suitable for using intermittent renewable electricity. In this Perspective article, we explain why plasma might ...

Let's cut to the chase: if you're here, you're probably either an engineer tired of lithium-ion's limitations, a renewable energy enthusiast chasing the 'holy grail' of storage, or a sci-fi nerd ...

A brief overview of the fundamentals and technical effects of plasma technologies and details highlighting the utility of plasma technologies for the synthesis and modification of advanced ...

Terrestrial plasmas can be found in fusion devices (machines designed to confine, ignite and ultimately extract energy from deuterium-tritium fuel), street lighting, industrial plasma torches and etching ...

In this Perspective article, we explain why plasma might be promising for this application. We briefly present the most common types of plasma reactors with their characteristic features, illustrating why ...

This article summarizes the structure-performance relationships of electrochemical energy conversion and storage materials (ECSMs) that have been prepared or modified by plasma.

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