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Title: Surface treatment of new energy storage hardware

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This review elucidates surface engineering as a multi-faceted tool for engineering materials for energy storage that intersects the quest for new materials and the rediscovery of old ...

Explore the world of energy-storage-coatings and their impact on surface engineering and coatings. Learn about the latest trends and innovations.

We welcome contributions that provide clear improvements in designing, understanding, integrating, and developing energy production/storage coatings. Manuscripts dealing with organic or inorganic ...

In the production process of battery trays and energy storage liquid cold boxes for new energy vehicles, necessary and appropriate surface treatment is a key step, such as: using coating, oxidation ...

In recent years, various surface functionalization strategies including single heteroatom doping and surface-initiated polymerization have been employed to enhance the material's energy ...

In this review, a comprehensive review of surface modification of complex hollow nanostructures for energy storage applications is discussed.

Overall, integrating multifunctional, repairable and monitorable surface systems with materials selection, predictive maintenance and lifecycle modeling yields the best route to reliable, low-cost renewable ...

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

Application case analysis and comparisons of surface modification coatings in different energy storage systems (lithium-ion batteries, supercapacitors, fuel cells, metal-air batteries, etc.).

Multiple experimental studies have shown that the surface layer or state of Mg-based materials has a strong impact on their performance. Surface modification treatment can greatly ...

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