

# What are the coating equipment for energy storage containers

Can nanocontainer technology be used for smart materials?

The nanocontainer technologies developed for self-healing coatings can also be used for other smart materials.

Why are nanocontainer shells important?

A high ratio between the container size and the coating thickness can result in the loss of physical integrity of the coating matrix. The nanocontainer shell has to provide good adhesion between the containers and host matrix as well as many other properties which are mostly omitted during laboratory research.

What is a nanocontainer?

The main target in the "nanocontainer" approach is to develop a nanocontainer shell with controlled permeability that is specific to several triggers whilst, at the same time, being stable inside the coating formulation as well as during coating application and curing. Another important step is the

Can magnetic-based micro/nanocontainers be used in coatings?

The application of magnetic-based micro/nanocontainers in the coating is an improvement that can be tried since the location and orientation of the magnetic-based micro/nanocontainers can be well controlled by applying an external magnetic field.

What can we learn from material-based coatings?

The development, synthesis, and research of these materials and material-based coatings are key directions in the development of new types of supercapacitors, Li-ion/Na-ion batteries, and hydrogen or oxygen generators with remarkable properties and performance.

Are nanocontainer-based coatings a good investment?

Nanocontainer-based coatings have enormous prospects both from commercial and scientific points of view. Current commercialization examples already showed successful niches for nanocontainer-based coatings becoming more and more attractive compared with conventional coatings for end users.

In this chapter, we will discuss the classifications of energy storage systems (ESSs), different methods of surface modifications, application, and role of energy storage coatings. AB - As the ...

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