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Title: Vanadium Redox Flow Battery Perfluorosulfonic Acid

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The definition of a battery is a device that generates electricity via reduction-oxidation (redox) reaction and also stores chemical energy (Blanc et al., 2010). This stored ...

A series of perfluorosulfonic membranes is screened for application in vanadium redox flow batteries (VRFB): membranes of constant thickness 50 μm with different ion-exchange ...

Perfluorosulfonic acid (PFSA) membranes, such as Nafion, are widely used in vanadium redox flow batteries (VRFBs) because of their high proton conduction through the ...

This article presents the properties and the performance of two commercially available and low-cost perfluorinated sulfonic acid membranes of GN115 and GN212C for ...

The microstructure of perfluorinated sulfonic acid proton-exchange membranes such as Nafion significantly affects their transport properties and performance in a vanadium ...

A highly proton-/vanadium-selective perfluorosulfonic acid (Nafion) membrane modified by phosphotungstic acid (PWA)-anchored nano Kevlar fibers (NKFs) and nano silica ...

Perfluorosulfonic acid membranes, represented by Nafion, are the most widely used proton exchange membranes (PEMs) in vanadium redox flow batteries (VRFBs). ...

Perfluorosulfonic acid membranes, represented by Nafion, are the most widely used proton exchange membranes (PEMs) in vanadium ...

A flow battery, or redox flow battery (after reduction-oxidation), is a type of electrochemical cell where

chemical energy is provided by two chemical components dissolved in liquids that are ...

In vanadium redox flow batteries (VRFBs), a perfluorinated sulfonic acid (PFSA) ionomer membrane plays a crucial role in transporting ions through hydrophilic channels.

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