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Resistivity of carbon felt for flow batteries



Overview

In a flow battery setup, carbon felt materials are compressed to obtain higher performance from the battery. In this work, a commercially available carbon felt material, commonly used as electrodes in Vanad.

Can felt electrodes reduce the resistivity of a flow battery cell?

Therefore, in this research the modification method of felt electrodes to reduce the resistivity of a flow battery cell. The modification is carried out by thermal catalytic decomposition of propane/butane on the surface of a carbon fiber.

Can carbon felt electrodes be used in redox flow batteries?

6. Conclusions In this study, a commercially available carbon felt electrode designed for use in redox flow batteries by SGL has been investigated for the impact of compression on the electrical resistivity, and the single-phase and multi-phase fluid flow.

Are carbon felt electrodes a good choice for large-scale energy storage?

They are considered an excellent choice for large-scale energy storage. Carbon felt (CF) electrodes are commonly used as porous electrodes in flow batteries. In vanadium flow batteries, both active materials and discharge products are in a liquid phase, thus leaving no trace on the electrode surface.

What is the electrical resistivity of carbon felt?

Gonzales-Garcia et al. also presented their measurements of electrical resistivity of carbon felt materials, which was in the range of 10–16.3 mΩ m. In comparison, the results presented in this work, demonstrate the electrical resistivity of GFA6 ranges between 8–10 mΩ m and changes as a function of compression.

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