Vanadium Flow Battery Graphite

We report a novel electrode design based on sustainable fructose-derived porous carbon spheres (F-PCS) uniformly deposited on graphite felt (GF) through a simple hydrothermal method, ...

In this work, DFT was performed to study the first solvation shell structure of all vanadium ions and to investigate the reactivity of modified graphite electrodes toward the V2+ /V 3+ redox ...

To address the issue, in this work, the rich active site-NiMoO 4 nanorods were used to in situ modify graphite felt for high-performance VRFB.

In this study, we developed a method to prepare vanadium nitride (VN) nanorod-assembled microspheres uniformly loaded on graphite felt (GF) fibers. Vanadium dioxide (VO2) ...

In this work, a reduced graphene oxide/Mxene hybrid-decorated graphite felt (rGO/Mxene@GF) is designed to facilitate the kinetics of redox reaction. The electrocatalytic activity and mass transfer of ...

Semantic Scholar extracted view of "Performance of cobalt oxide-modified graphite felt composite electrodes prepared by pulse electro-flash vaporization in vanadium flow batteries" by ...

Herein, we demonstrate a high-rate and ultra-stable vanadium redox flow battery based on quaternary ammonium salt-modified graphite felt electrodes. At a high current density of 200 mA ...

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