

Title: All-vanadium liquid flow battery carbon felt

Generated on: 2026-03-17 07:30:45

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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 ...

In this study, we employed atmospheric dielectric barrier discharge (DBD) to modify the commercial carbon felt (CF) electrodes for VRFB efficiency improvement. The treatment ...

For developing the VRFB negative electrode, tungsten/bismuth-based oxides (W-Bi) were solvothermally synthesized and grown on carbon felt (W_x-Bi_y@CF) using ...

This research demonstrates the potential of ZIF-modified carbon felt as a highly effective electrode material for vanadium redox flow batteries, paving the way for more efficient ...

Vanadium redox flow battery (VRFB) electrodes face challenges related to their long-term operation. We investigated different electrode treatments mimicking the aging ...

Herein, we, for the first time, successfully prepared N, O co-doped carbon felt (CF) by plasma treatment as electrodes in all-vanadium redox flow batteries (VRFB).

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