Titanium electrodes for flow batteries

Surface-modified graphite felt incorporating synergistic effects of TiO 2 decoration, nitrogen doping, and porous structure for high-performance vanadium redox flow batteries

To advance the integration of a titanium-cerium electrode-decoupled redox flow battery (Ti-Ce ED-RFB) system with conventional fossil-fueled power plants through detailed technical and economic system ...

Using a mixed solution of (NH 4) 2 TiF 6 and H 3 BO 3, this study performed liquid phase deposition (LPD) to deposit TiO 2 on graphite felt (GF) for application in the negative electrode of a ...

In this study, we have investigated using highly conductive static ...

Flownano turned the electrode into a lever for renewables--agnostic to chemistry, built for measurable impact, ready for any energy sector: from storage to hydrogen, water treatment, and CO2 conversion.

Titanium-based RFBs, first developed by NASA in the 1970s, are an interesting albeit less examined chemistry and are the focus of the present review.

This study demonstrates a 50% improvement in operating power density of an aqueous, electrode-decoupled titanium-cerium RFB without loss of energy efficiency through electrode ...

This paper describes the trend of electrolyte research for redox flow batteries and the characteristics of the titanium-manganese electrolyte.

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