

and many potential applications in the field of environmental science have emerged as a result. This mini review examines the synthesis method of vanadium pentoxide and its properties" effects, as well as ...

Vanadium-based alloys, regarded as one of the most promising high-capacity hydrogen storage alloys, have garnered substantial attention and research from scholars. This work ...

Vanadium oxide nanotube is a new type of nanotubular material which opens new horizons for application in many areas. The important catalytic and electrochemical property of ...

Various comprehensive utilization of vanadium extraction tailings have been reviewed and compared, mainly focusing on the extraction of vanadium, iron, titanium, and gallium from vanadium extrac-tion ...

The phosphorus chemical and vanadium titanium industries are typical strategic and high-pollution industries. With the rapid increase in global demand for phosphorus and vanadium titanium ...

The study introduces the LC2MVTS/FP-FB (Low carbon concept model of vanadium titanium steel/four pillars and five beams) framework, which integrates energy, resources, information, ...

The transition metal-oxides are a versatile class of materials with numerous applications. In this chapter, the optical and gas sensing properties of the vanadium oxide thin films ...

Recently, China Steel Research Technology Group Co., Ltd (referred to as China Steel Research) successfully conducted the world"s first industrial-scale trial of efficient separation ...

For large-scale applications on MH tanks, it is necessary to develop low-cost and high-performance V-Ti-based solid solution alloys with high reversible hydrogen storage capacity, good ...

Up to now, different forms of hydrogen energy, produced by different hydrogen storage methods, are designed as power sources, which are widely applied to hydrogen compressor, electric ...

Abstract:Vanadium titanomagnetite ore has prominent latent applications in the recovery of iron, vanadium and titanium. In this study, the reduction effect and product characteristics of vanadium ...

In this study, we aimed to develop a synthesis method of V-doped TiO₂ hydrosols with different compositions, which is neutral, easily coats on glass, and possess high photocatalytic ...

Application of vanadium titanium hydrogen solar container technology

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One-dimensional TiO₂ nanotube array photoanode for a microfluidic all-vanadium photoelectrochemical cell for solar energy storage ... In this work, a highly efficient TiO₂ nanotube array photoanode ...

Abstract The conventional processing of vanadium-titanium magnetite (VTM) has been associated with substantial CO₂ emissions and inefficient resource utilization, raising significant ...

In this paper, the effects of various factors on the dynamic thermal performance of vanadium-titanium black ceramic solar collector were studied experimentally. To calculate the ...

The recycling of mineral tailings is an important research topic. In this work, composite material was prepared using vanadium titanomagnetite (VTM) tailings, kaolin and sodium silicate, and ...

Solid-state hydrogen storage technology has emerged as a disruptive solution to the "last mile" challenge in large-scale hydrogen energy applications, garnering significant global research attention.

An alloy group majorly consisting of vanadium, titanium and chromium in solid solution form is one of the promising metal-based hydrogen storage materials, which shows the ability to ...

Vanadium (V)-based alloys are considered promising materials for hydrogen storage due to their high capacity under ambient conditions. However, the application is seriously hindered by high cost of ...

The metallic vanadium has an excellent hydrogen storage properties in comparison to other hydride forming metals such as titanium, uranium, and zirconium. The gravimetric storage ...



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