عنوان مقاله:

Energy Efficiency of Thin Film-Functional Materials in Sulfuric Acid Solutions

محل انتشار:

کنفرانس دو سالانه بین المللی مکانیک جامدات تجربی (سال: 1394)

تعداد صفحات اصل مقاله: 2

نویسنده:

K Habib - *Materials Science and Photo-Electronics Lab., RE Program, EBR CenterKISR, P.O.Box 24885 Safat, 13109 Kuwait*

خلاصه مقاله:

A criterion of the energy efficiency of iron-boron-silicon metallic glasses in sulfuric acid solutions was proposed for the first time. The criterion was derived based on calculating the limit of the ratio value of the conductivity of a metallic glass in aqueous solution to the conductivity of the metallic glass in air. In other words, the criterion; lim (the conductivity of the metallic glass in aqueous solution to the conductivity of the metallic glass in air) =1 was applied to determine the energy efficiency of the metallic glass in the aqueous solution when the conductivity of a metallic glass in aqueous solution became equal (decreased) to the conductivity of the metallic glass in air as a function of time of .the exposure of the metallic glass to the aqueous solution

کلمات کلیدی:

Energy efficiency; Functional Materials; Metallic glasses; Thin film; Conductivity; EIS; Sulfuric acid