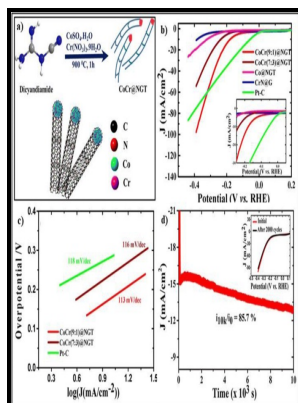


Nickel-based amorphous alloys with Cr/V additions for the hydrogen evolution reaction in alkaline solution

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Description: -

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Notes: Thesis (M.A.Sc.) -- University of Toronto, 2001.

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Moreover, literature data concerning the electrocatalytic activity of the Ni75Mo25 and Co75Mo25 crystalline alloys, which are considered good electrocatalyst materials for the HER, were also reported for comparison. Moreover, the electrode demonstrates good stability in the alkaline medium during prolonged electrolysis for 48 h. Regardless of which prototype design is the best, the various components of the fuel cells still needs combined efforts of both scientists and engineers.

Interaction of (Ti, Cr)B2

Power Sources, 2010, 195 , 5246 —5251. These possibilities also present a great challenge for there are many to be optimized. According to their report, the reaction selectivity strongly depends on the nature of the electrolyte, but to a smaller extent on the electrolyte pH.

Interaction of (Ti, Cr)B2

The j_0 values for the Ni75Mo25 and Co75Mo25 crystalline alloys are reported for comparison in Table 2. The latter is a dead end in the reaction path towards CO₂ production, since it cannot be easily oxidized or broken into C₁ fragments in agreement with CV data provided therein showing that acetic acid in KOH was not active.

Electrochemical behavior of Ni

These results suggest that the electrode surface state in the material play an important role in the proton-adsorption kinetic as demonstrated by SEM, open circuit potential transients and cyclic voltammetry techniques. A microanalysis suite INCA version 4.

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When it comes to catalyst design, excellent progress has been made which allows tailoring the nanoparticle structures and morphology from the atomic level. Int J Hydrogen Energy 1987;12:727.

Implanting Ni

The result of this degradation is an important loss in the number of anionic exchange groups, and a decrease of the ionic conductivity. CoeMo powder electrocatalyst for hydrogen evolution. We present a bird's eye view of the current understanding of ethanol electrooxidation reaction EOR mechanism; the principles and strategies for rational catalyst design with a focus on tuning chemical composition, size, and structural morphologies of the mono- and bi-metallic nanoparticles; the use of metal oxides as alternatives to carbon supports, to the challenges and emerging opportunities moving forward.

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