Title of presentation :

Contribution to the study of ternary metal compounds based on La-Ni-Mg, intended for electrochemical applications

Keywords

Hydrogen storage alloy, Mechanical alloying, nickel-metal hydride batteries, Charge and discharge galvanostatic polarization.

Abstract

The objective of our work is a contribution to the study of ternary compounds at the base of La-Ni-Mg, such as the compounds $La_{1.5}Mg_{1.5}Ni_9$ and $La_{1.5}Mg_{0.5}Ni_7$ belong to the family AB_3 and A_2B_7, respectively. All these compounds are produced by mechanical grinding at different grinding times and mass ratio of beads / powder 8: 1.

The structural characterization is carried out by DRX in order to identify the different existing phases.

The electrochemical characterization is carried out through two methods of galvanic-static and potential-dynamic polarization in order to test the performance of these two compounds as active material for the anode of Ni-MH batteries.

Some information about my self

It is my great honor to be here to present my work entitled with

"Contribution to the study of ternary metal compounds based on La-Ni-Mg, intended for electrochemical applications'': application as negative electrode for Ni-MH battery.

Elaborated by myself Rakia Dahsa

I am 25 years old and I am from Tunisia, I grew up in a small island located in southern part of Tunisia, this island is famous for having the nicest beach in the World.

I am a Mgr. in physics, member of the Metal Hydrides Team of Mechanics, Materials and Processes Laboratory at the National Higher School of Engineering of Tunis