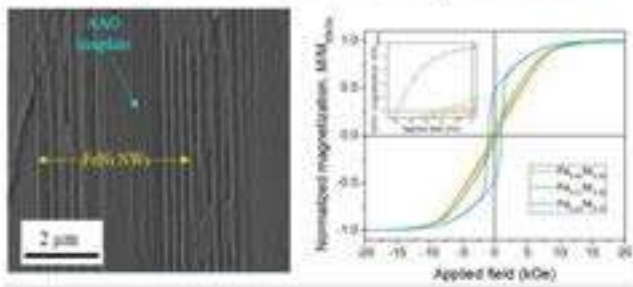


Poster

Tuning the magnetic hardness of FeNi nanowires: In the search of the cosmic L1₀-FeNi phase

Alonso J. Campos-Hernández*, Ester M. Palmero, Alberto Bollero

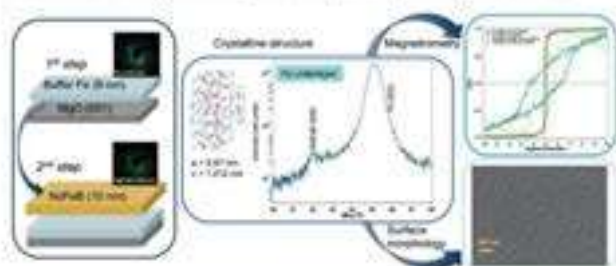


FeNi nanowires were electrochemically synthesized to be studied as a model system for developing L1₀-FeNi, a very promising permanent magnet. Using a variety of electrolytes and electrodeposition potentials allowed for the possibility of tuning the crystallographic structure and magnetic properties of the arrays of nanowires.

Poster

Understanding the initial growth stages in NdFeB films grown by MBE with varying underlayer

J. Soler-Morala*, C. Navío, P. Pedraz, L. Zha, J. Yang, A. Bollero



Rare-earth based thin films are great candidates for their integration in applications such as micro and nano actuators, MEMS, and novel spintronic devices. They are also essential in energy-related technologies. NdFeB thin films with a tailored composition have been grown with different underlayers by Molecular Beam Epitaxy. In their first stages of growth, their electronic, structural, magnetic properties as well as their morphology have been studied.