

My nano sunflowers



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Short description:

The image has been acquired with a scanning electron microscopy at the Nanofacility Piemonte at INRiM and it has been colorized after the acquisition. The image represents sub-micrometric structures of Fe₇₀Pd₃₀. This alloy is interesting both for its magnetic and mechanical properties. The structures were obtained by template assisted electrodeposition. The gold substrate was patterned via electron beam lithography. The target height of the structure was 300 nm, but a over-estimation of the plating time has bring to the overplating effect, producing structures higher than desired, and having lateral dimension that exceed the 500 nm of diameter.