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The invention relates to the technology for producing nanostructured materials, in particular to electrochemical processes for obtaining nanostructures that can be applied in micro-, opto- and nanoelectronics.

The process for obtaining tubular aluminum oxide nanostructures on aluminum support includes the electrochemical etching of an aluminum foil in an electrolyte, at the same time the electrochemical etching is carried out into an aqueous solution of nickelous sulphate with a concentration of 0,5...3,0 g/ml at the temperature of 15...40°C and current voltage of 35...50 V, with subsequent chemical etching into an aqueous solution of orthophosphoric acid with a concentration of 5,0...15,0 g/ml at the temperature of 20...50°C.

Claims: 1

Fig.: 2