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The invention relates to the oxide material obtaining technology, in particular to processes for obtaining ZnO nanostructures with different morphological forms (nanothreads, nanotubes, nanoneedles, nanorods).

Summary of the invention consists in obtaining ZnO nanostructures on silicon or sapphire supports, realizing the evaporation of a source, consisting of a mixture of ZnO powders and carbon. Novelty of the invention consists in carrying out the environment evaporation of the mixture, the source temperature being maintained in the range of 900...1450°C, and the temperature gradient between the source and the support constitutes 10...120°C.

Claims: 1

Fig.: 3