

Sol-gel preparation of semiconductive oxides 1-D nanostructures on glass substrate

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Abstract. This paper presents the microstructure, optical and electrical properties of zinc oxide nanorodlike structures deposited on glass substrate by dip-coating method. The crystalline phases and morphology of 1-D nanostructured materials have been investigated using X-ray diffraction and scanning electron microscopy (SEM) techniques. The UV-VIS-NIR spectra and the electrical properties were also measured.

Keywords: zinc oxide, 1-D nanostructure, nanorod-like, sol-gel, UV-VIS-NIR spectra, electrical properties.
