

Αγγλική περίληψη

Title: Study of nanotopographic and nanostructural properties of thin films in organic light emitting diodes (OLEDs) to optimize their performance

In this thesis we performed a detailed study of the nanotopographic and nanostructured properties of surfaces developed by liquid chemistry and printing techniques, which constituted the final multilayer structure of carbon dioxide dispensers on flexible and rigid substrates. For this purpose, the atomic force microscopy technique was applied. The aim of the study was to investigate the nanotropic and nanohydraulic properties as well as the thickness of the individual layers of OLED devices and their correlation with the performance of the integrated devices.