Nano silver oxide based on insulator for optoelectronic device

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ABSTRACT

The high quality, high transparent conductive nano and micro silver oxide (Ag_2O) films were successfully deposited quartz substrate as substrates using the pulsed laser reactive deposition (RPLD) method. The optical results tests showed high transparency values reached to (90) % and these results found of a sharply reduction with the low values of fluency of laser. The values of the optical band gab of the prepared films at the optimum value of the preparation condition is about 3.65eV, the surface morphology give a uniforms structure with the average roughness of (1.61 nm).