

Effects of laser wavelength on some of physical properties of Al₂O₃ nano films for optoelectronic device

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ABSTRACT

The high transparent conductive, high quality nano and micro aluminum oxide (Al₂O₃) films were deposited successfully using pulsed laser deposition (PLD) method. The optical results shows a high transparency reached to (83) % and it found to reduction sharply with the low laser fluency. The surface morphology gives a uniforms structure with the average roughness of (0.38 nm).