

Investigation on the Characteristics of ITO and its Application for GaN-based Light Emitting Diode

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ABSTRACT

In this study, we report on the characteristics and fabrication of Indium tin oxide film by RF magnetron sputtering. Additional, the effects of the processing conditions such as, operation pressure, gas ratio, operation temperature, etc.) on the optical properties, electrical properties of the thin film are also investigated. The post-deposition annealing has been done for ITO films in air and the effect of annealing temperature on the electrical, optical and structure properties of ITO ohmic contact was studied.

Keywords : RF sputtering, Indium Tin Oxide

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