

A novel parameter effects on optical properties of the LiNbO₃ films using sol-gel method

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ABSTRACT

TLN, (LiNbO₃) Lithium niobate micro and nano and photonics are prepared and deposited on Silicon substrate using the sol-gel method. All prepared samples are prepared and deposited at the different Substrate temperatures and annealed, at 500 °C. These samples are tested by Ultra-Violet visible (UV-vis), respectively and PL. The presented results were indicated that the values of the optical energy band gaps and values of the optical refractive index are consistent with the presented values of the experimental tests.