**NGHIÊN CỨU TỔNG HỢP NANO ZnO PHA TẠP La BẰNG PHƯƠNG PHÁP SOL-GEL**

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**SUMMARY**

In this paper we present the study results on the synthesis of ZnO solutions doped with La at 3% mol concentration by the sol-gel method in the presence of Zn(NO3)2, La(NO3)3 and PVA solution. The materials prepared were characterized by X-ray diffraction (XRD), scanning electron microscope (SEM), transnission electron microscopy (TEM), UV/VIS diffuse reflectance spectroscopy (UV-VIS-DRS). The optional preparative were polyvinyl ancol/metal ions 1,5:1 by mol, the ameling temperature of 5000C and 600C for gel formation.The particle size of nanoparticle is ranging from 16-18nm in diameter.

Keywords: ZnO doped La, sol-gel method