

ABSTRACT

SYNTHESIS AND CHARACTERIZATION OF ZrO₂-CuO COMPOSITES USING SOL GEL AS A FUNCTION OF TIME

By

NEVI YANTI LUBIS

In this study, composites ZrO₂-CuO were synthesized from ZrCl₄ and Cu(NO₃)₂ using sol-gel technique with the focus on the effect of stirring time on microstruktur of the sample. Characterization of the sampel were carried out using the techniques of XRD and SEM after the samples subjected to sintering temperature of 700°C. The results obtained clearly indicated the significant effect of processing time on the characteristic of the samples.

Keywords: ZrO₂-CuO Composites, sol-gel, structure, microstructure.