

## PENUMBUHAN DAN KARAKTERISASI LAPISAN TIPIS PBTIO3 YANG DISIAPKAN DENGAN TEKNIK SPIN COATING

<b>Title</b>	PENUMBUHAN DAN KARAKTERISASI LAPISAN TIPIS PBTIO3 YANG DISIAPKAN DENGAN TEKNIK SPIN COATING
<b>Author Order</b>	of
<b>Accreditation</b>	
<b>Abstract</b>	The growth of PbTiO <sub>3</sub> ferroelectric thin films have successfully done. Thin films were made from bulk (powder) PbTiO <sub>3</sub> dissolved in methanol solution. The condensation was mixed during 1 hour to get homogeneous condensation. Thin films were grown above corning substrates by spin coating method. Optimization was done by various of annealing temperature. The physical properties of thin films were characterized by Energi Dispersive X-Ray Spectroscopy (EDS), X-Ray Diffraction (XRD), Scanning and Electron Microscopy (SEM). EDS measurement showed that the stoichiometry composition ratio of Pb/Ti is 1/1.26 at annealing temperature 600oC and 1/1.29 at annealing temperature 700oC. The result of XRD pattern showed that crystal structure of PbTiO <sub>3</sub> thin films are tetragonal. The calculated lattice parameters obtained from Chohen Method are a=b= 3.873 Å dan c= 4.130 Å. The result of SEM PbTiO <sub>3</sub> thin film showed that thin film has globular grain size.
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