

ABSTRACT

PREPARATION OF TiO₂ THIN FILM WITH DIP COATING METHOD AS FUNCTION OF TIME

By

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Preparation of TiO₂ thin film has been done on the glass preparat substrat using dip coating method. Process of coating preparation for six samples with varied of times were 1, 2, 3, 4, 5, and 6 minute. The samples drying at 120 °C and calcined at temperature at 500 °C for 4 hours. Dominantly, XRD analysis showed by amorphous phase eventhough there was shown diffraction peak. results show a difference over time of withdrawal. Sample A has a relatively homogeneous level better with other samples. The thickness of the thin layer of sample A is more visible than the sample B, D, and F. UV-Vis spectrum shows that the lower the absorption due to the longer time sampling. Price resistivity growing up with increasing time the withdrawal is done.

Key Words: TiO₂ thin film, titanium dioxide, method of dip coating, absorpsi, resistivity.