

전기화학적 방법을 이용한 백금판위의 TiO₂ 박막제조

김명섭, 이종대*

충북대학교

(jdlee@chungbuk.ac.kr*)

The TiO₂ thin films were fabricated by electrochemical method using a sacrificial titanium anode in I₂-added acetone bath. The TiO₂ thin films were deposited on Pt substrates under the various conditions: applied-voltage, time, temperature. The morphologies of as-deposited films were found to be dependent on the applied voltage. The thickness of thin films with fixed applied-voltage were linearly increased with electrolysis time. The morphology and microstructure of the TiO₂ thin films were investigated by X-ray diffractometry(XRD), Scanning electron microscopy (SEM), and Auger electron spectroscopy (AES).