

Fabrication and application of TiO₂ thin film

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TiO₂ have many applications in the field of photocatalysis, environmental protection, high charge storage capacity devices etc. In the present investigation, nanocrystalline TiO₂ thin films have been electrodeposited from aqueous baths with Quartz Crystal Microbalance(QCM) and potentiostat. The morphological studies of these films have been carried out using atomic force microscopy(AFM) and scanning electron microscopy(SEM). The morphology of TiO₂ film and device performance are closely related. Produced TiO₂ thin film were investigated for application as chemical sensors.