Preparation of photocatalytic TiO₂ thin films by atomic layer deposition using TDMAT and H₂O₂

<u>로자나</u>, 김도형* 전남대학교 (kdhh@chonnam.ac.kr*)

Titanium dioxide thin films were grown by atomic layer deposition using tetrakis-dimethylamino titanium (TDMAT) and H2O2 as precursor and reactant, respectively. The films were grown at deposition temperature $100-250\,^{\circ}$ C. Influence of experimental parameters; precursor, reactant and purge time, on thin films properties and photocatalism were studied. Various analysis methods were used to investigate the film properties, ellipsometer, four-point probe, X-ray diffractometer and Auger electron spectometer.