

### Preparation of TiO<sub>2</sub> thin films by using aerosol flame depositon process

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The aerosol flame deposition (AFD) process is capable of preparing nano-sized metal oxide films from liquid precursors. In our study, We prepared titania thin films with the titanium tetra-isopropoxide (TTIP) precursor by using AFD process. The flame torch was moved zig-zag in an x and y directions for uniform deposition of the thin films. TTIP was carried into the central tube of the torch by flowing N<sub>2</sub> gas, and TiO<sub>2</sub> was formed by oxy-methane flame and deposited on a substrate placed in a cooler holder.