

## Synthesis of $\text{TiO}_2$ Nanoparticles using Titanium Tetra-Isopropoxide by DC Thermal Plasma System

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This study examined the synthesis of Titanium dioxide nano particle using TTIP ( Titanium Tetra-Isopropoxide ) as Titanium source, by DC thermal plasma system at atmospheric pressure. TTIP was injected by a bubbler with  $\text{N}_2$  - carrier gas. Particle compositions were observed for various flow rates of raw material. The prepared samples were mainly characterized by X-ray diffraction, SEM, TEM, EDS, particle size analyzer and ultraviolet-visible spectroscopy.