

**EFEK TEMPERATUR PADA PROSES SINTESIS ZnO-TiO₂ NANOPARTIKEL
DENGAN METODE SOL-GEL**

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ABSTRACT

EFFECT OF TEMPERATURE IN ZnO-TiO₂ NANOPARTIKEL SYNTHESIS SYNTHESIS PROCESS USING SOL-GEL METHOD

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ZnO-TiO₂ has been synthesized by the sol-gel method of zinc nitrate precursor. Morphological modification with the pattern of nanopartikel is done through the regulation of gel temperature and calcination. ZnO-TiO₂ nanopartikel were characterized using X-ray diffractometer (XRD), Scanning Electron Microscopy (SEM), Fourier Transform-Infrared (FT-IR) showing that ZnO-TiO₂ has a crystal size in the range (41.53 - 43.44) nm. The SEM-EDX pattern shows the morphological formation of rods with a composition of Zn 38.06%, Ti 0.41% and O 48.40%.

Keywords: ZnO nanopartikel, characterized, gel.

