

기계적 합금화법에 의해 제조된 Ni이 도핑된 TiO<sub>2</sub> 광촉매 특성에 관한 연구  
Characteristics of Ni-doped titanium dioxide photocatalyst synthesized by  
mechanical alloying

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Nanocrystalline Ni doped TiO<sub>2</sub> powder was synthesized by mechanical alloying. Microstructural and photo-spectrometric analysis showed that the added Ni was dissolved into TiO<sub>2</sub> matrix. The Ni doped powder shifted the absorption threshold into the visible light region and enhanced the photoefficiency. The metastable state was also found to increase the doping effect.