

## Photocatalytic Degradation of Methylene Blue over Ti-Containing MFI Zeolite in Aqueous Solution

이종학, 박순호<sup>1</sup>, 최광민, 박상언\*  
인하대학교 화학과; <sup>1</sup>그린엔텍  
(separk@inha.ac.kr\*)

Photocatalytic degradation of methylene blue in aqueous solution was studied with UV irradiation by using nanofabricated titanium silicalite-1 and aluminotitanium silicalite-1 as catalysts which prepared via microwave.

To estimate its decoloration efficiency over photodegradation, methylene blue was introduced to estimate its decolorization efficiency and photodegradation rate on various parameters such as catalyst, pH, H<sub>2</sub>O<sub>2</sub> etc. Power XRD, UV-VIS, and SEM analysis were used to characterize these catalysts. The photocatalytic activity was compared with nanofabricated and non-nanofabricated MFI zeolites.