

E1-16: Photocatalytic degradation of organic contaminants in water with TiO₂ supported on polyethylene films

C T K Tilakaratne, I R M Kottegoda, P M Sirimanne, K Tennakone
(*Institute of Fundamental Studies, Kandy*)

TiO₂ is known to be an excellent photocatalyst for complete mineralization of organic contaminants in water. However, the separation TiO₂ particles create problems in practical application of the process. It was found that TiO₂ can be readily supported on polyethylene films without inhibiting the photocatalytic activity. As an example, data on photocatalytic degradation of phenol by TiO₂ supported on polyethylene films will be presented.