



showed higher photocatalytic activities than in the thin film form. However, the latter has some advantages over the former that (1) it is recoverable after use, (2) it can be reused. Moreover, the effect of UV light intensity, the effect of initial concentration of MB, and the effect of pH of MB solution were studied. The results were that the photocatalytic activities of the Immo-TiO<sub>2</sub> anatase film and the Immo-TiO<sub>2</sub> Degussa P25 film increased with increasing UV light intensity and pH of MB solution but decreased with increasing initial concentration of MB solution. In addition, the Immo-TiO<sub>2</sub> anatase film can be “self-cleaning” after used and subsequent use showed no decrease in the photocatalytic efficiencies of the film.