

Supplementary Materials:

Photocatalytic Degradation of Dye with Self-Dye-Sensitization under Fluorescent Light Irradiation

Md. Ashraful Islam Molla ^{1,*}, Mai Furukawa ¹, Ikki Tateishi ¹, Hideyuki Katsumata ¹, Tohru Suzuki ², and Satoshi Kaneco ^{1,2}

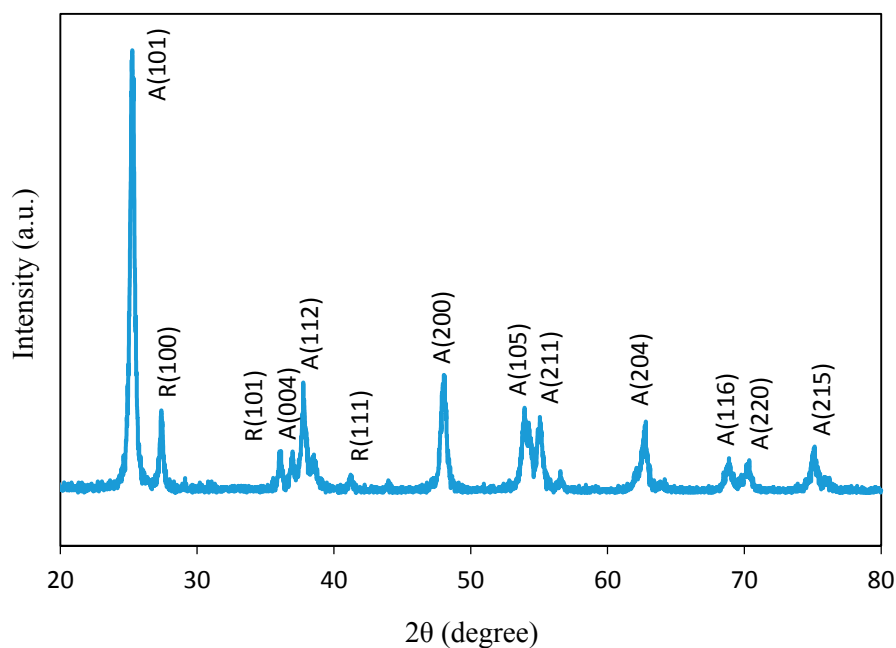


Figure S1. XRD patterns of P25 TiO₂.

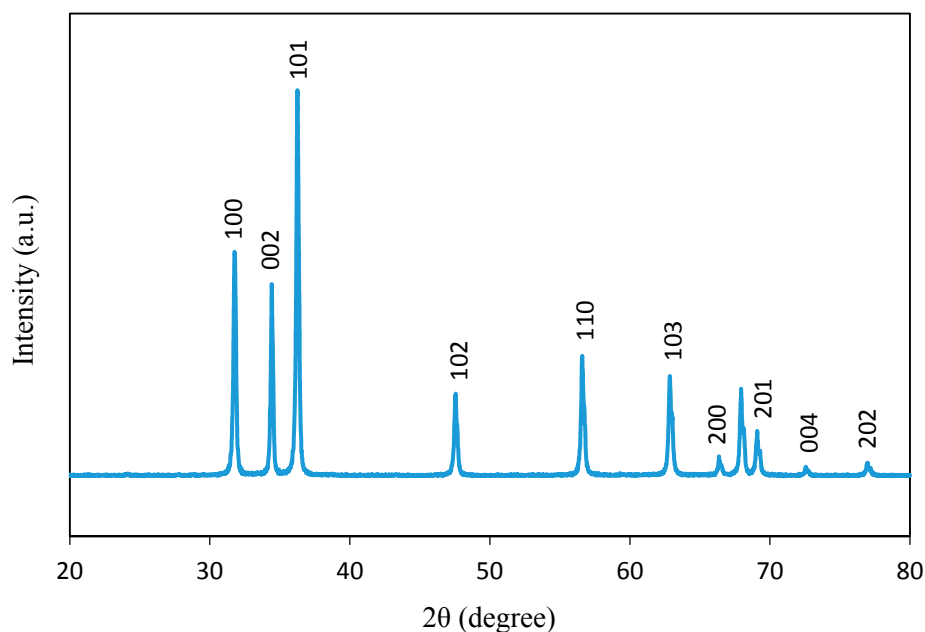


Figure S2. XRD patterns of ZnO.

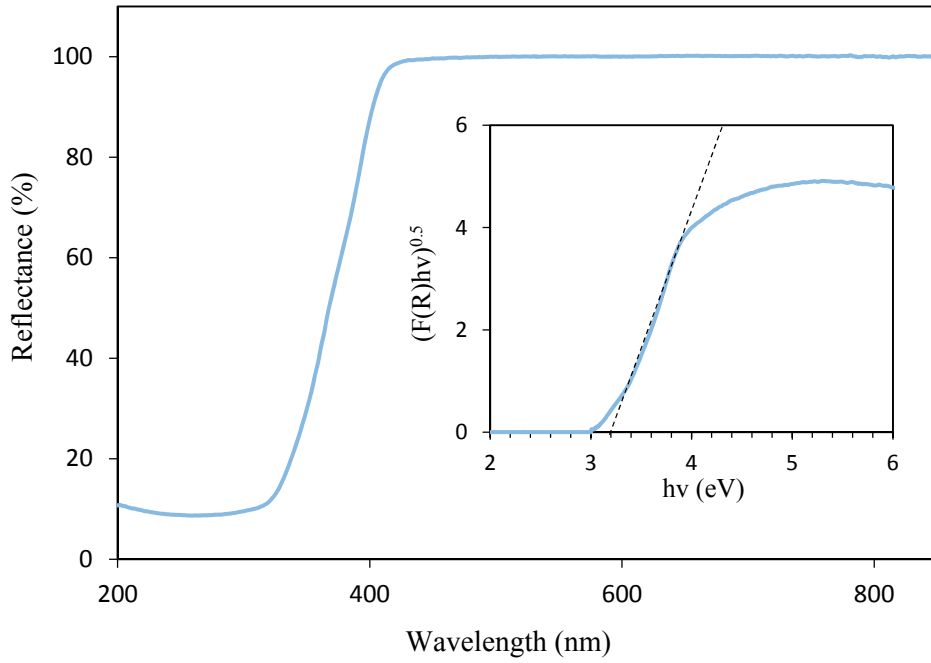


Figure S3. UV-Vis DRS patterns of TiO₂. Inset figure: Tauc plot of $[F(R)hv]^{0.5}$ versus photon energy.

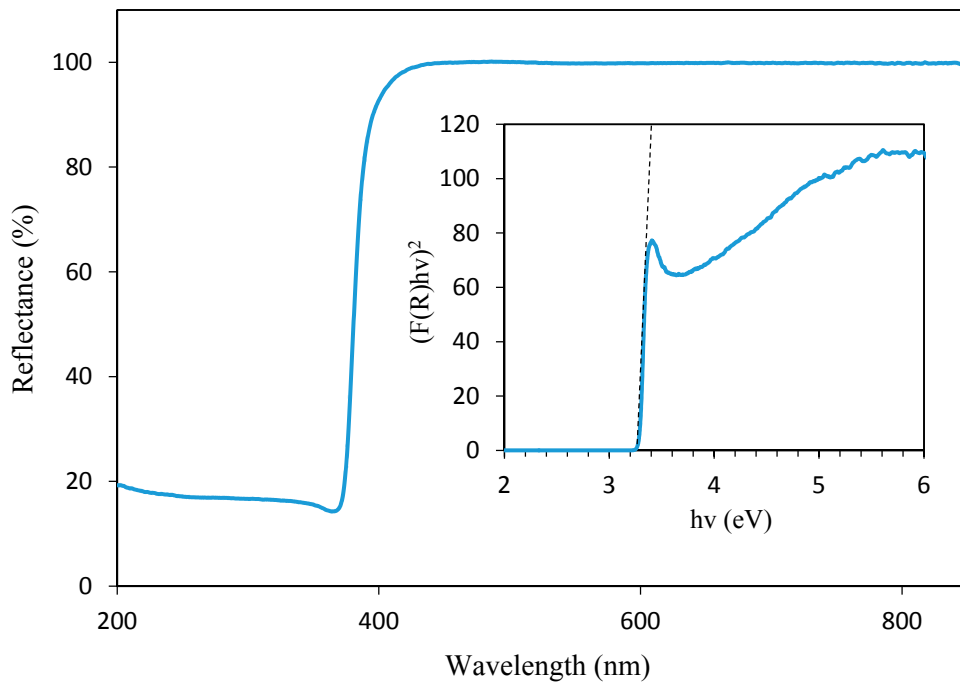


Figure S4. UV-Vis DRS patterns of ZnO. Inset figure: Tauc plot of $[F(R)hv]^2$ versus photon energy.

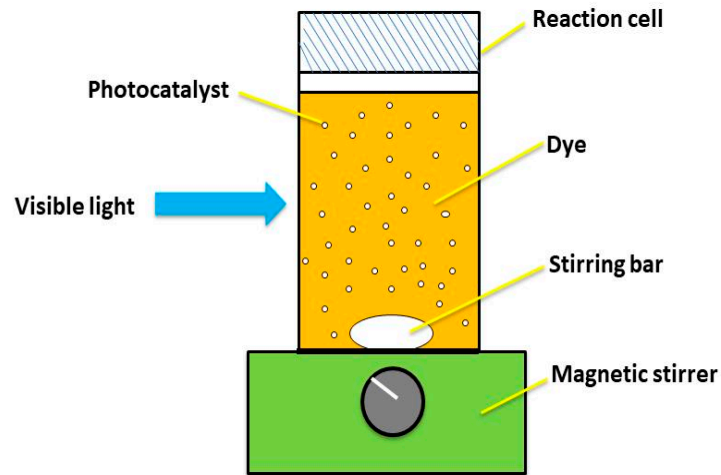


Figure S5. Reactor for photocatalytic degradation of dye.

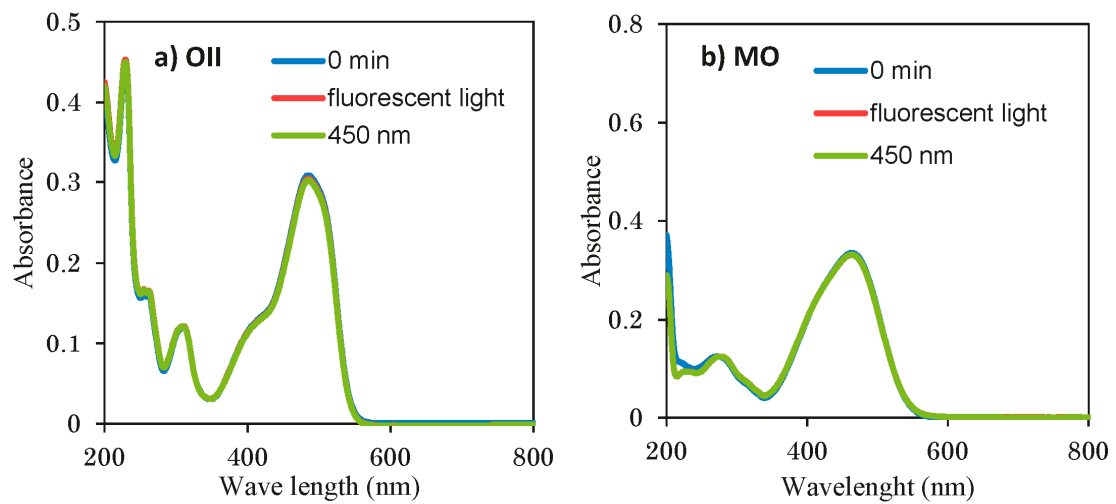


Figure S6. UV-visible spectra of aqueous solutions of (a) OII and (b) MO before and after treatment under fluorescent light and 450 nm LED light.