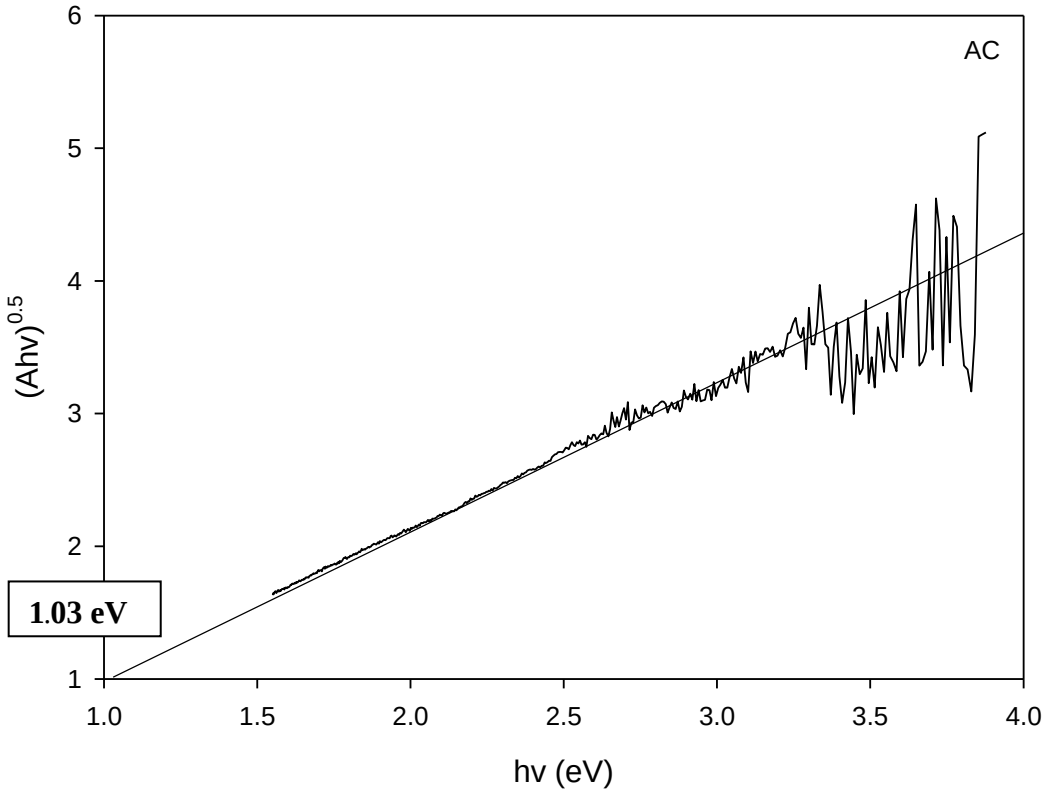

Figure S1. Plot of (αhυ) 2 vs. photon energy for AC.

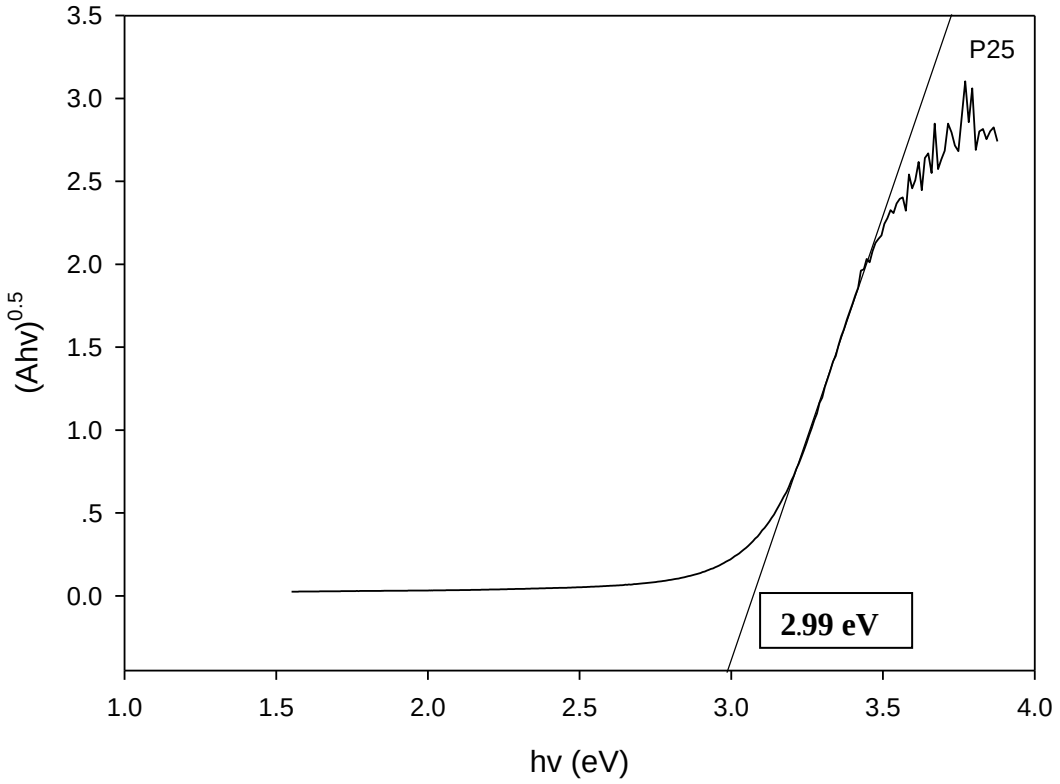

Figure S2. Plot of (αhυ) 2 vs. photon energy for TiO_2 (Degussa P25) .

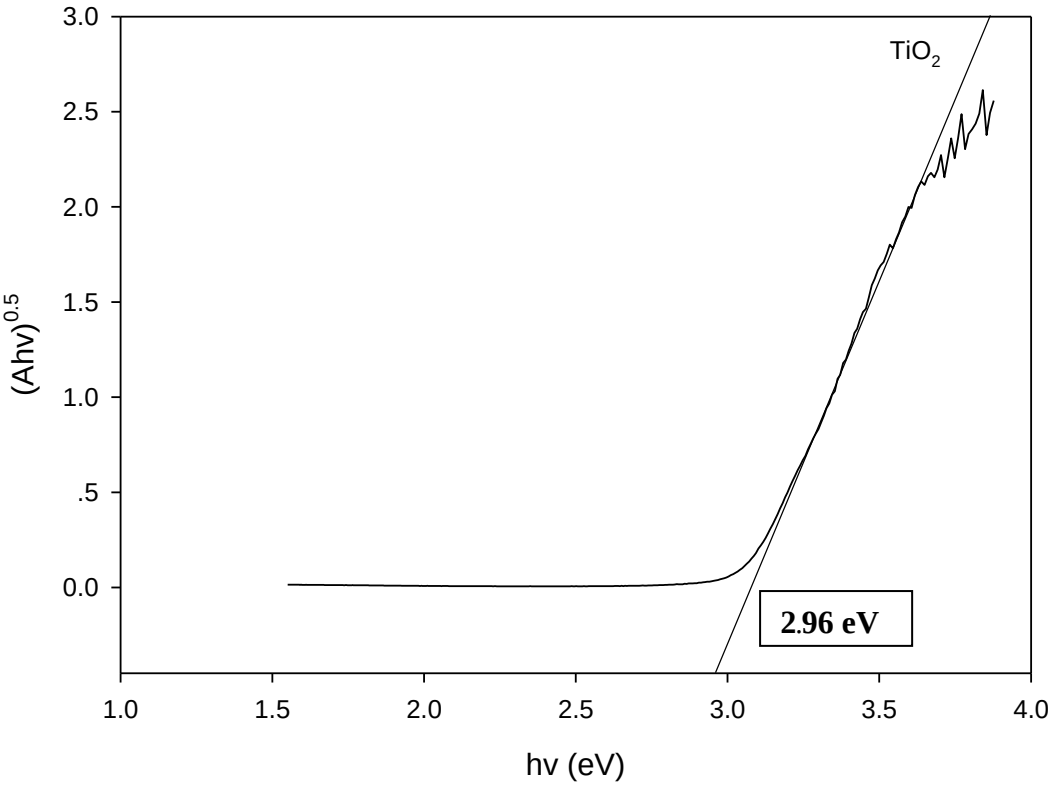

Figure S3. Plot of (αhυ) 2 vs. photon energy for TiO_2 prepared by sol–gel method.

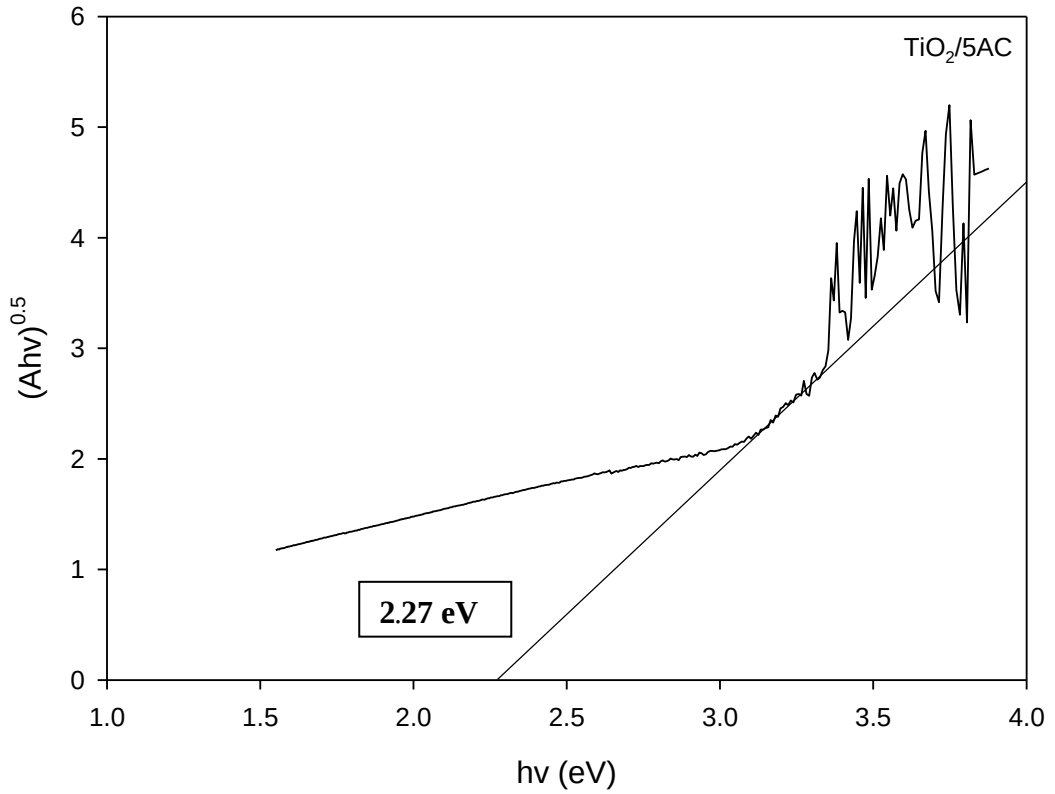

Fig. S4 plot of (αhυ) 2 vs. photon energy for TiO_2/5AC

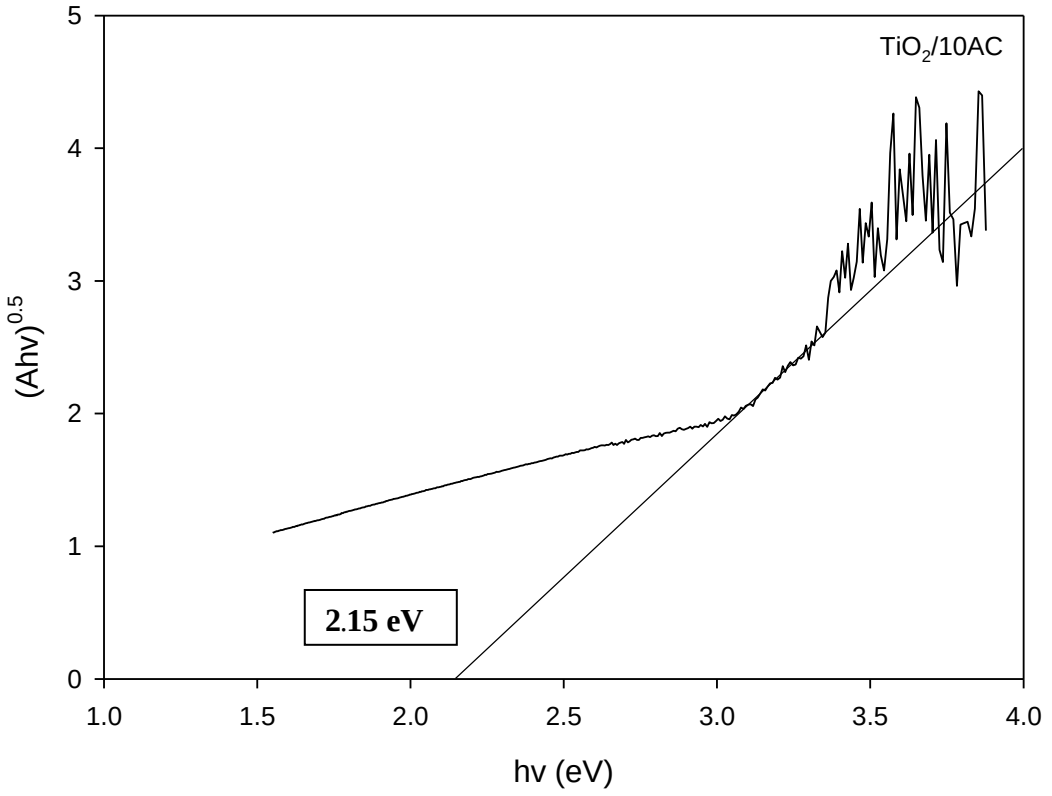

Figure S5. Plot of (αhυ) 2 vs. photon energy for TiO_2/10AC.

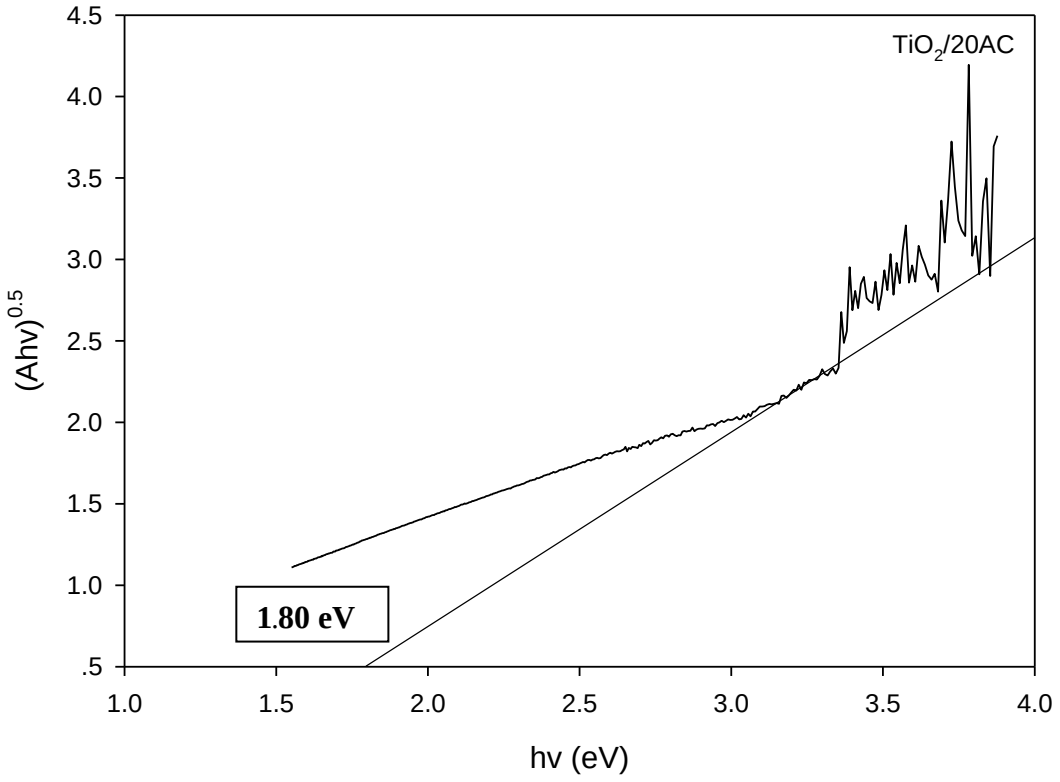

Figure S6. Plot of (αhυ) 2 vs. photon energy for TiO_2/20AC.

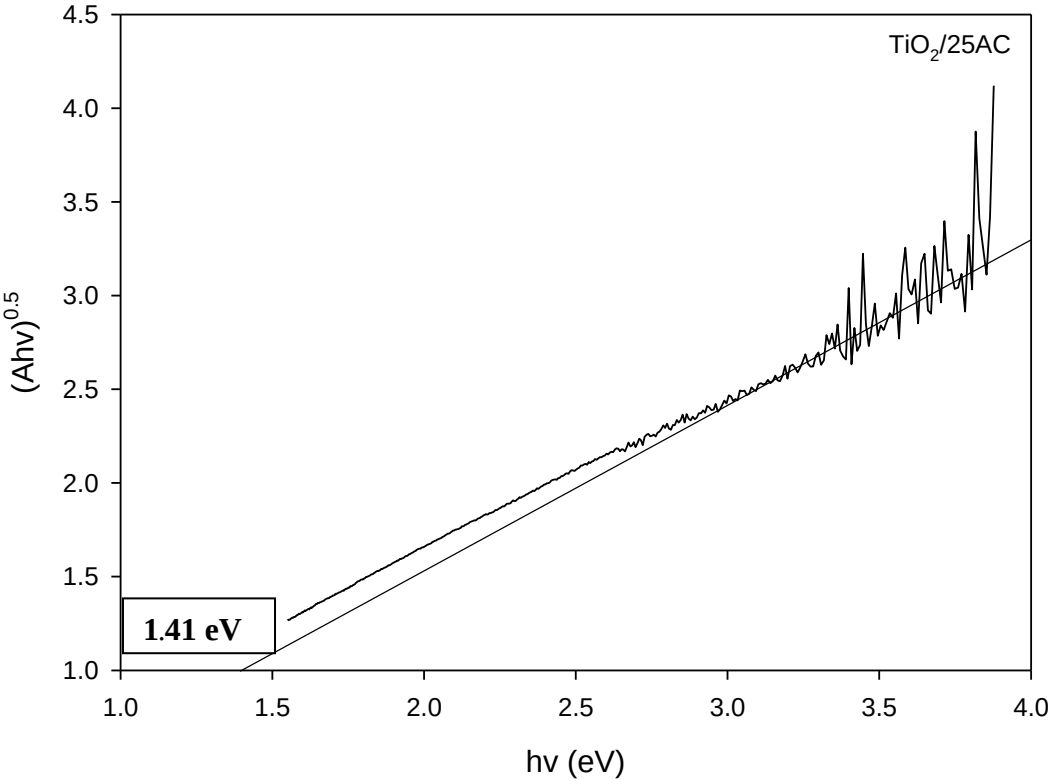

Figure S7. Plot of (αhυ) 2 vs. photon energy for TiO_2/25AC.

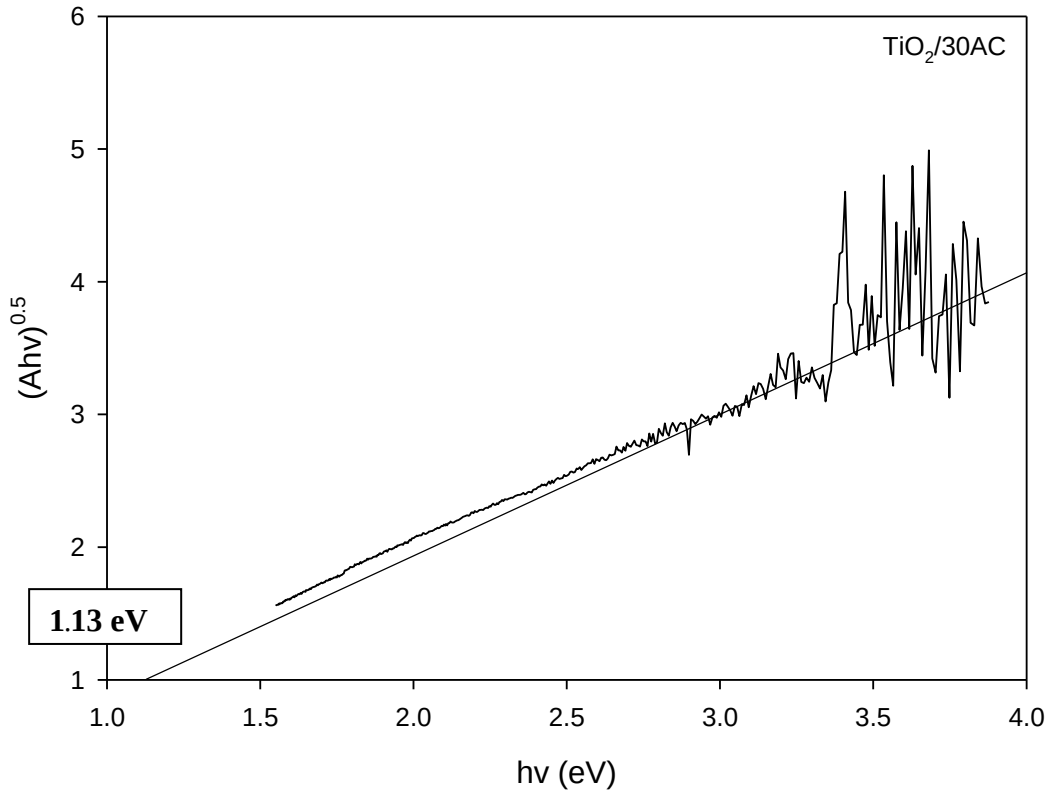

Figure S8. Plot of (αhυ) 2 vs. photon energy for TiO_2/30AC.

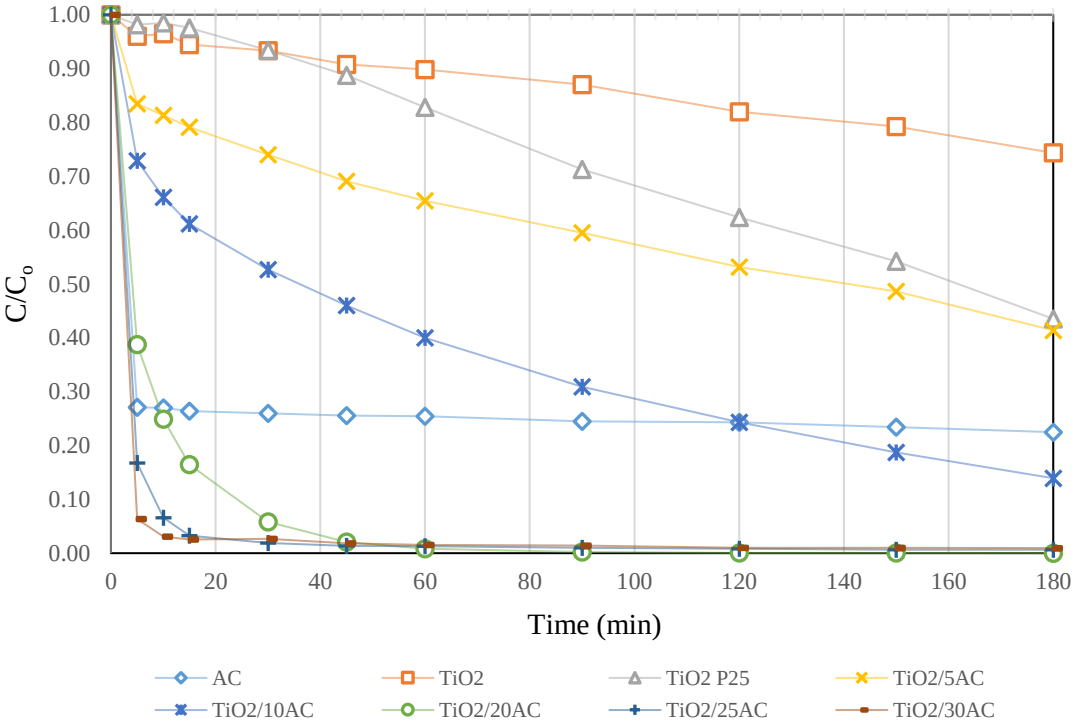

Figure S9. Dye removal of AC TiO_2 TiO_2 (P25) and TiO_2/AC in the presence of UV–light illumination.

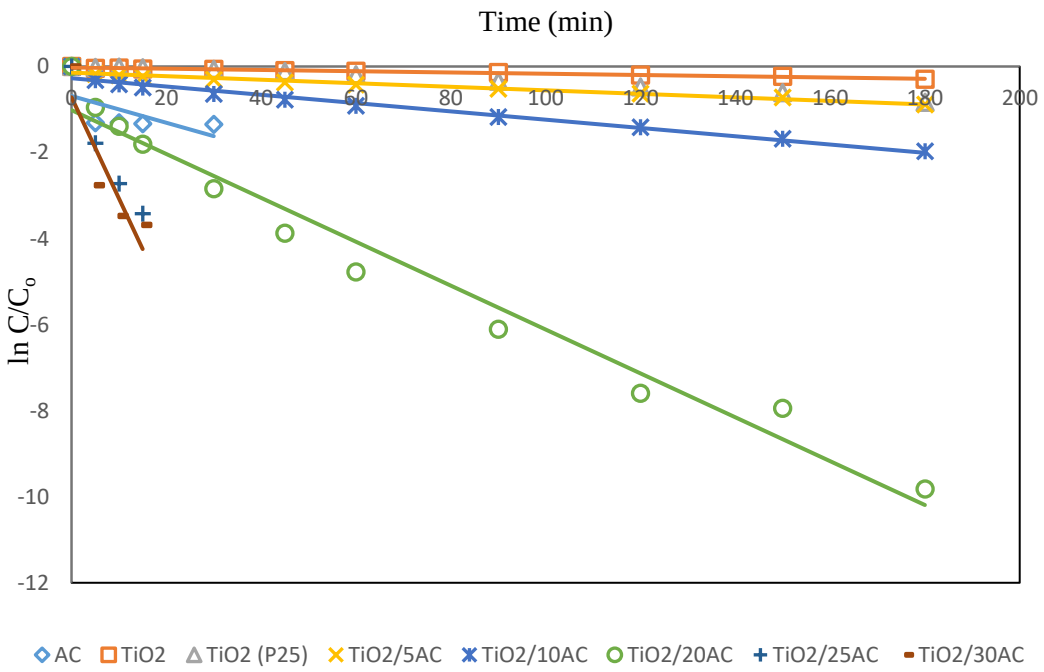

Figure S10. ln C/Co vs time for AC TiO_2 TiO_2 (P25) and TiO2/AC in the presence of UV–light illumination for dye removal**.**