Electronic Supplementary Material (ESI) for RSC Advances.

Supporting information

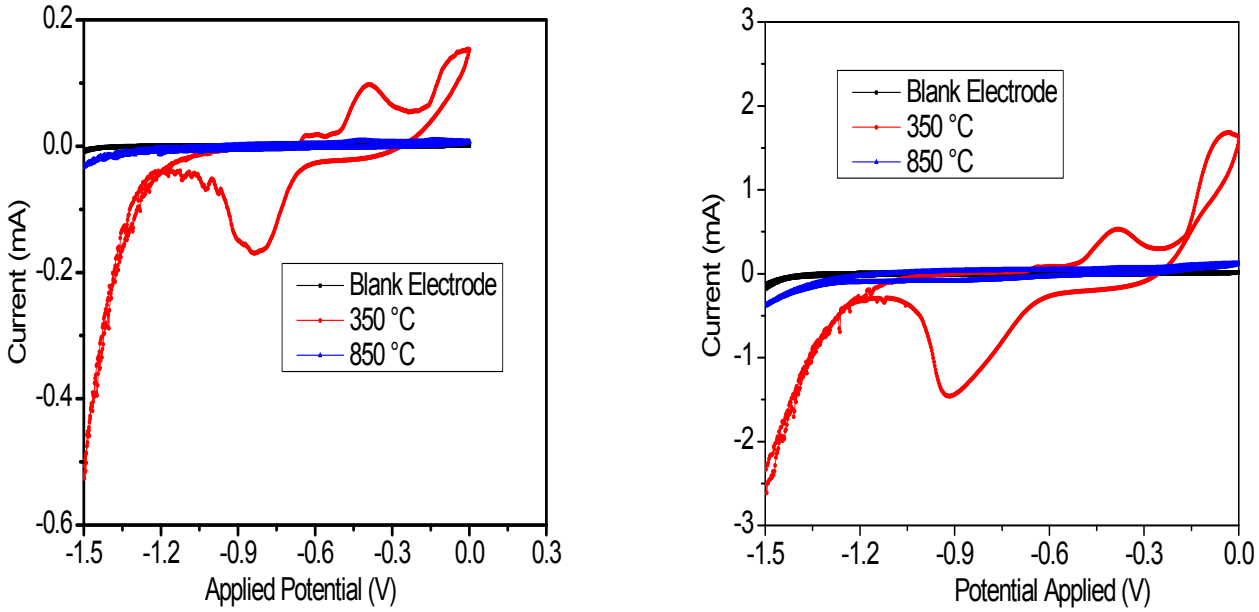

Figure S1: HER of Cu_2O (a) on glassy carbon (b) Platinum as electrode

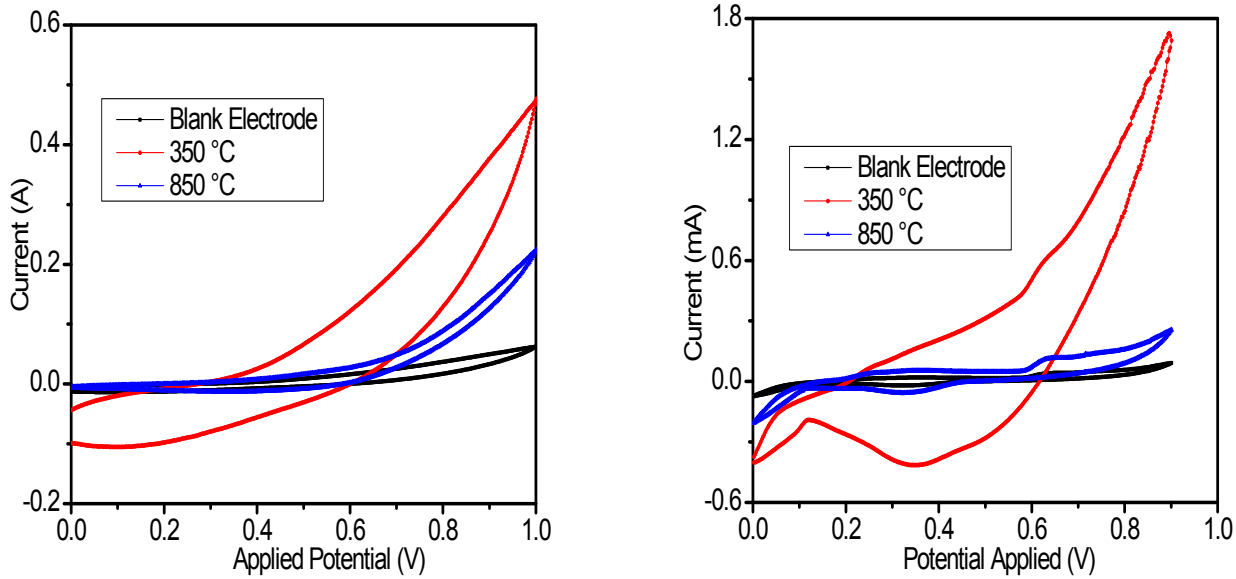

Figure S2: OER of Cu_2O (a) on glassy carbon (b) Platinum as electrode

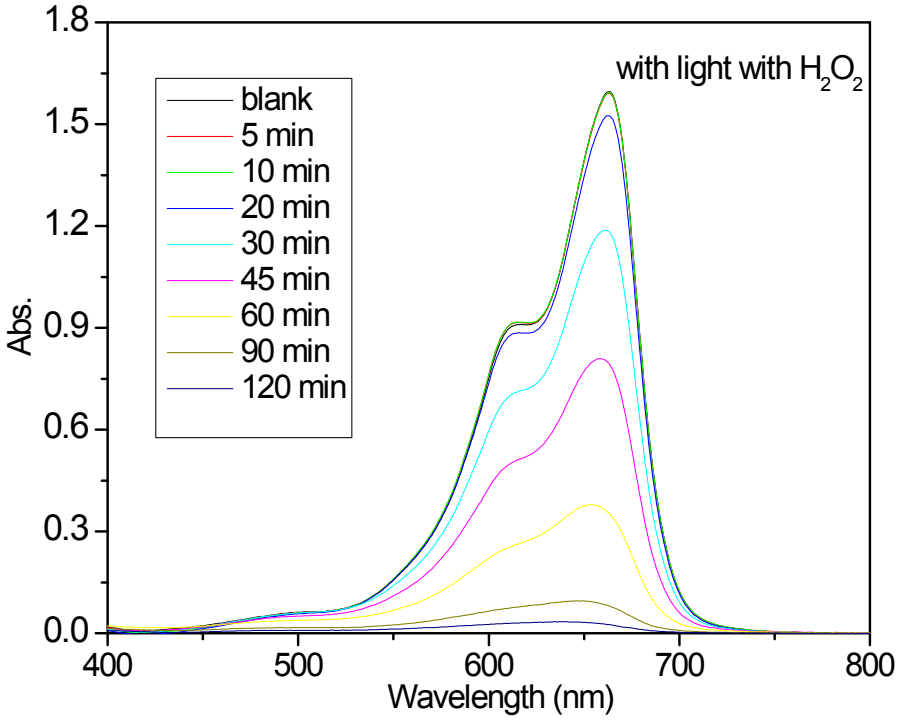

Figure S3: Photodegradation of Methylene blue with Cu_2O synthesized at 850 °C (with light and with H_2O_2)

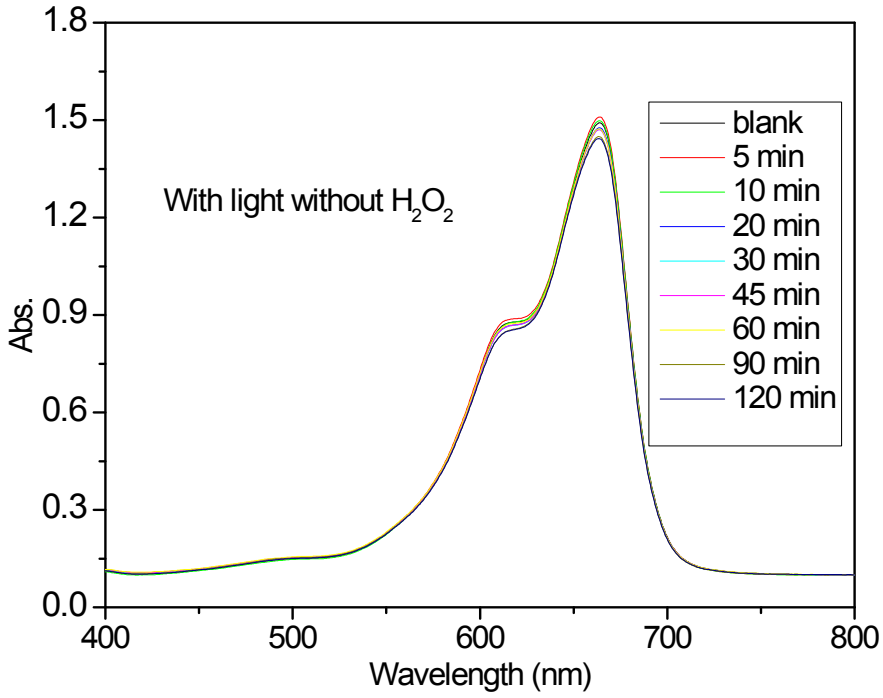

Figure S4: Photodegradation of Methylene blue with Cu_2O synthesized at 850 °C (with light and without H_2O_2)

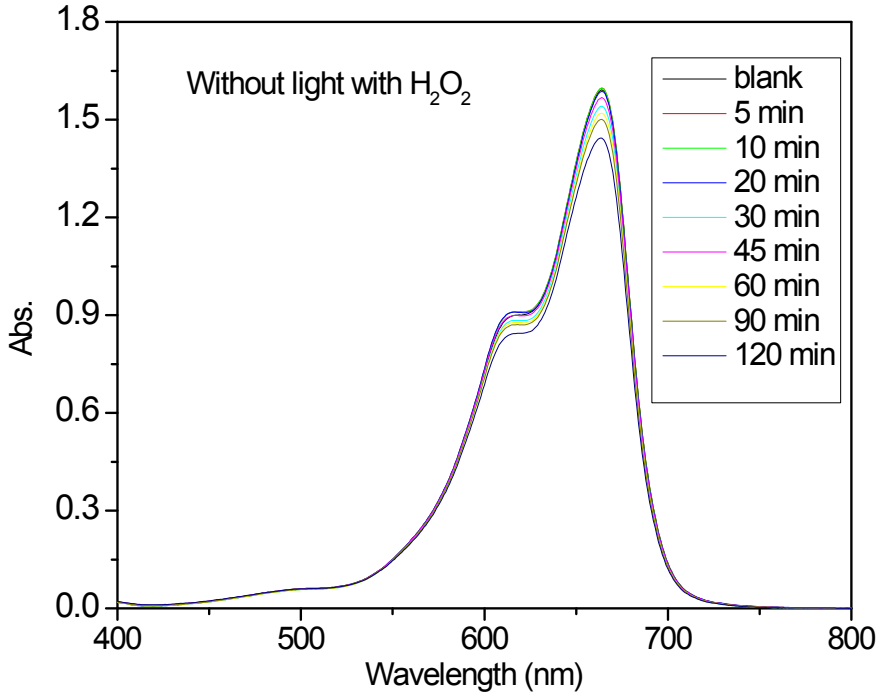

Figure S5: Photodegradation of Methylene blue with Cu_2O synthesized at 850 °C (without light and with H_2O_2)

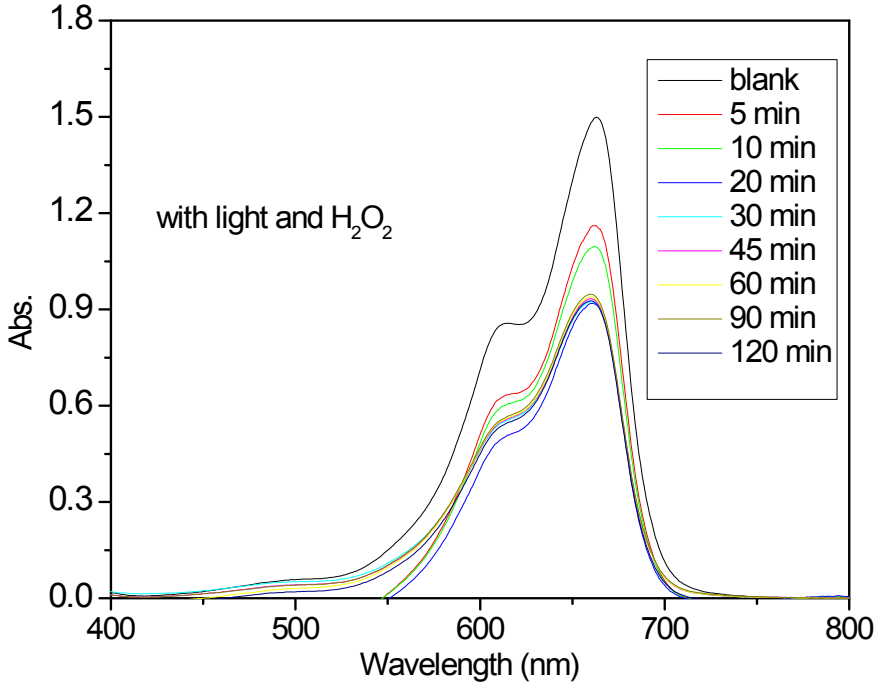

Figure S6: Photodegradation of Methylene blue with Cu_2O synthesized at 350 °C (with light and with H_2O_2)

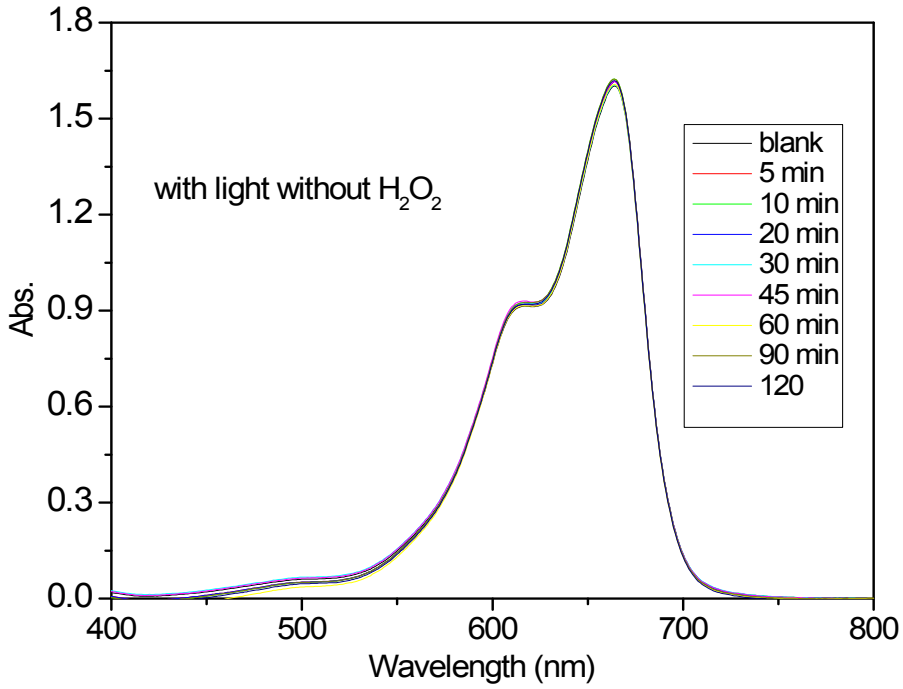

Figure S7: Photodegradation of Methylene blue with Cu_2O synthesized at 350 °C (with light and without H_2O_2)

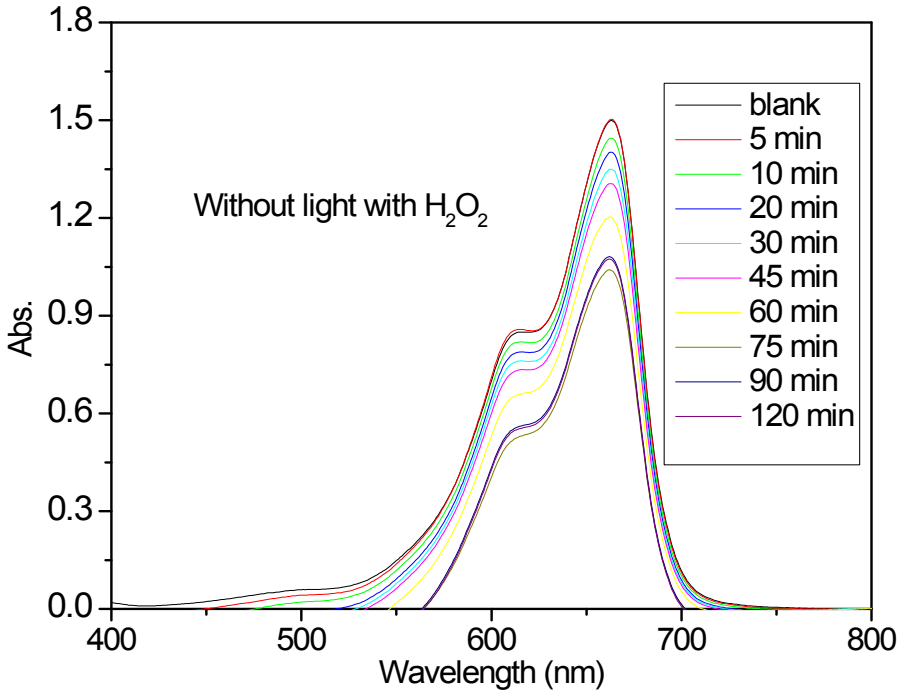

Figure S8: Photodegradation of Methylene blue with Cu_2O synthesized at 850 °C (without light and with H_2O_2)

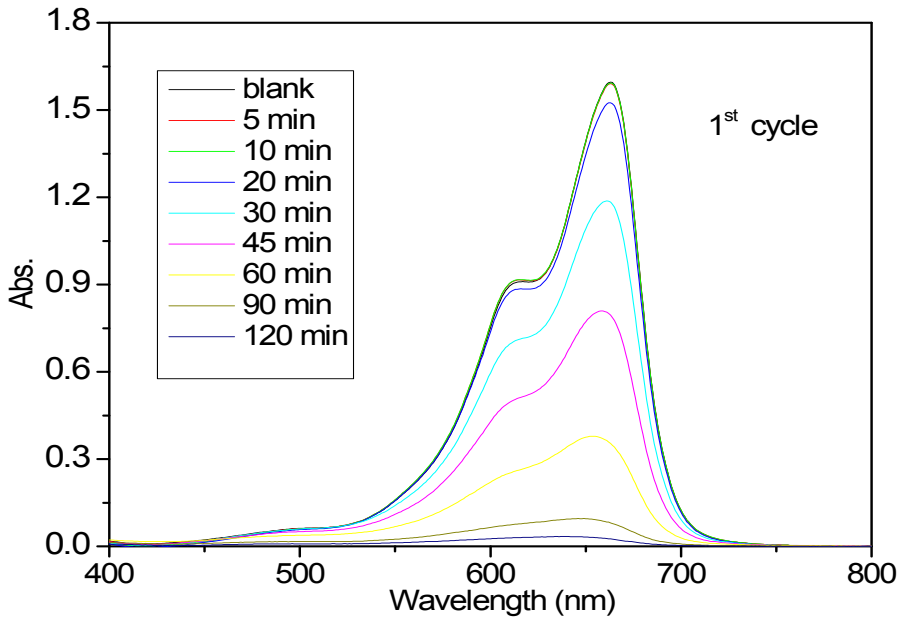

Figure S9: Photodegradation of Methylene blue with Cu_2O synthesized at 850 °C (with light and with H_2O_2) cycle 1

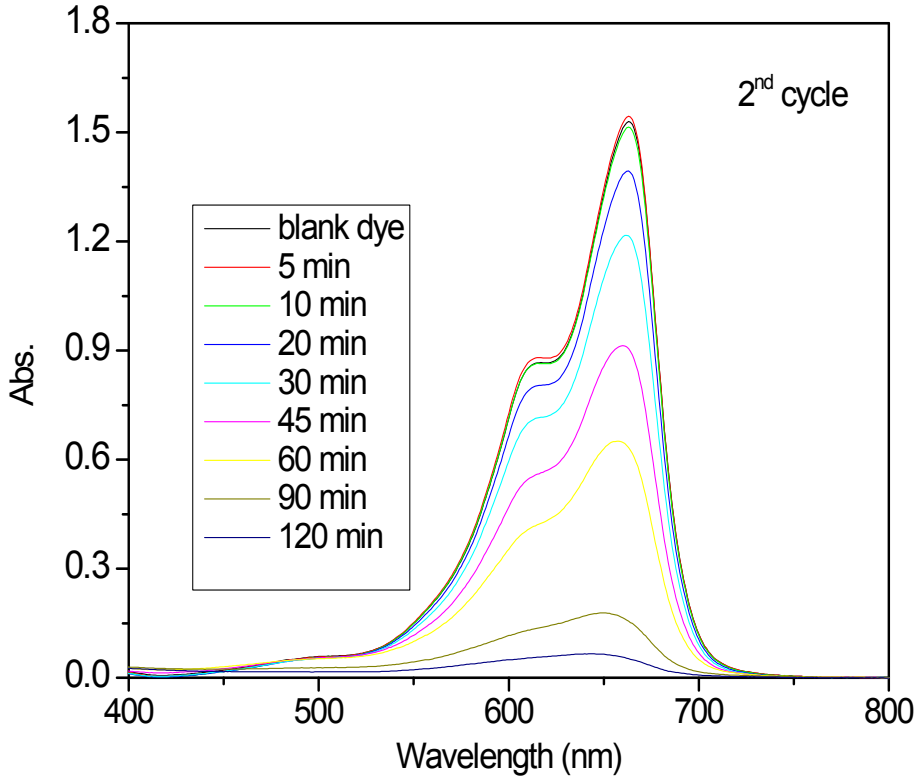

Figure S10: Photodegradation of Methylene blue with Cu_2O synthesized at 850 °C (with light and with H_2O_2) cycle 2

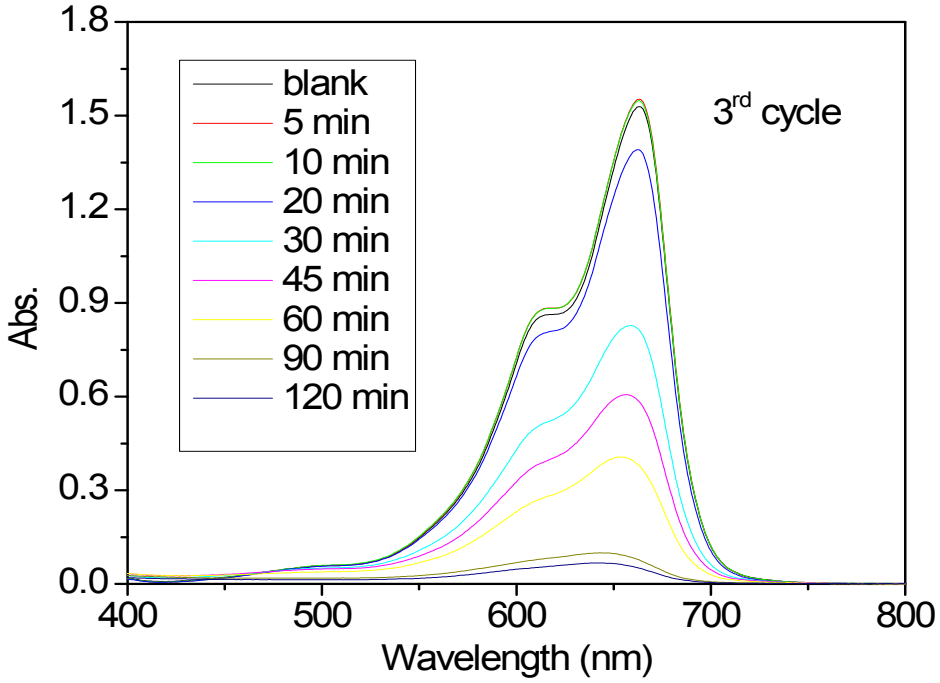

Figure S11: Photodegradation of Methylene blue with Cu_2O synthesized at 850 °C (with light and with H_2O_2) cycle 3

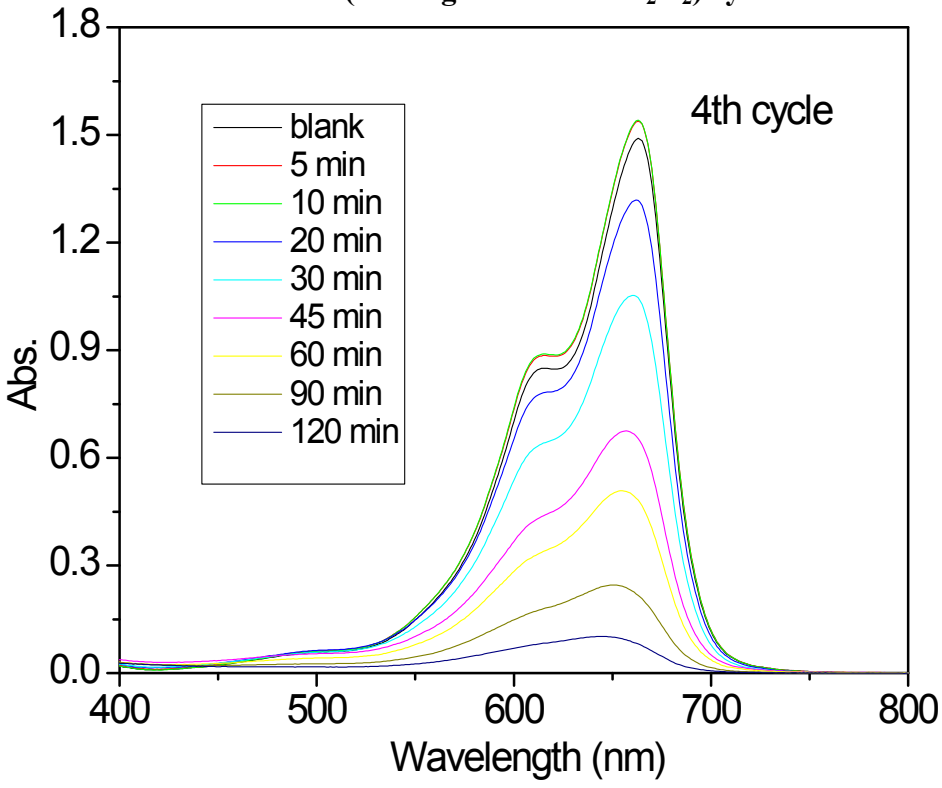

Figure S12: Photodegradation of Methylene blue with Cu_2O synthesized at 850 °C (with light and with H_2O_2) cycle 4

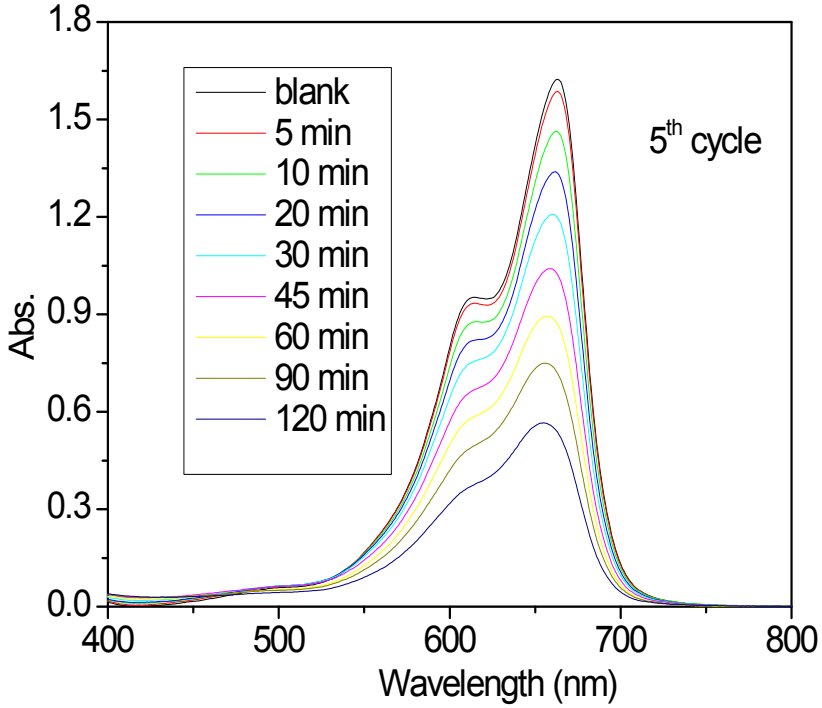

Figure S13: Photodegradation of Methylene blue with Cu_2O synthesized at 850 °C (with light and with H_2O_2) cycle 5

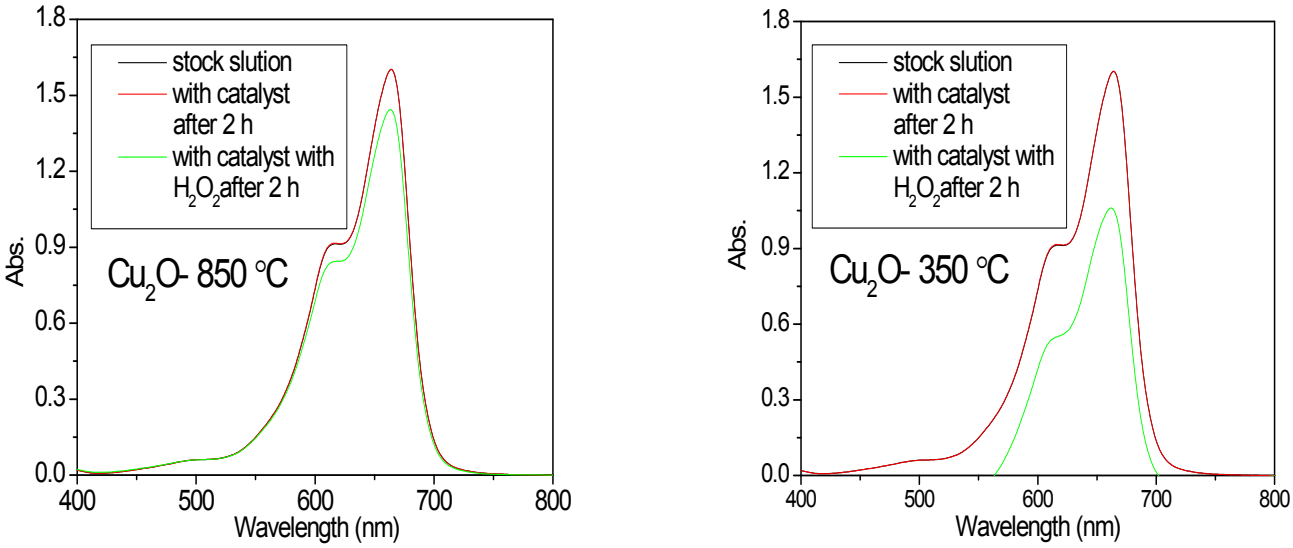

Figure S14: Adsorption of Methylene blue with Cu_2O