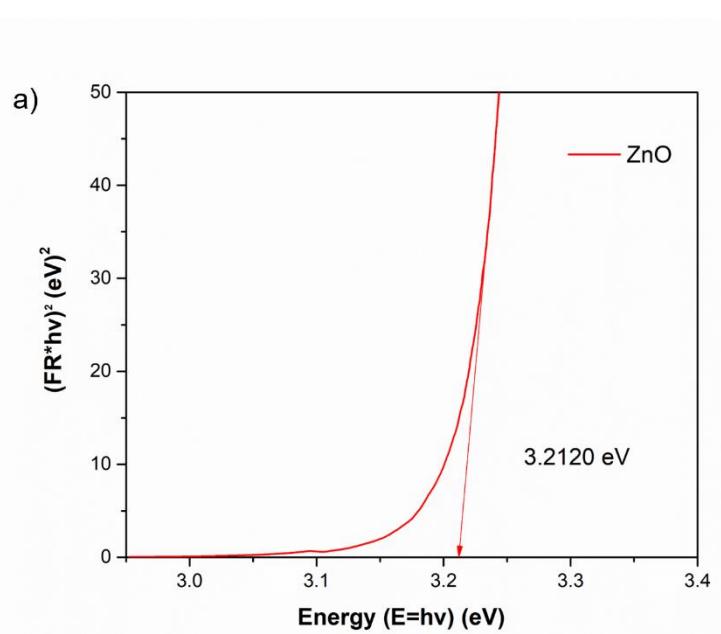
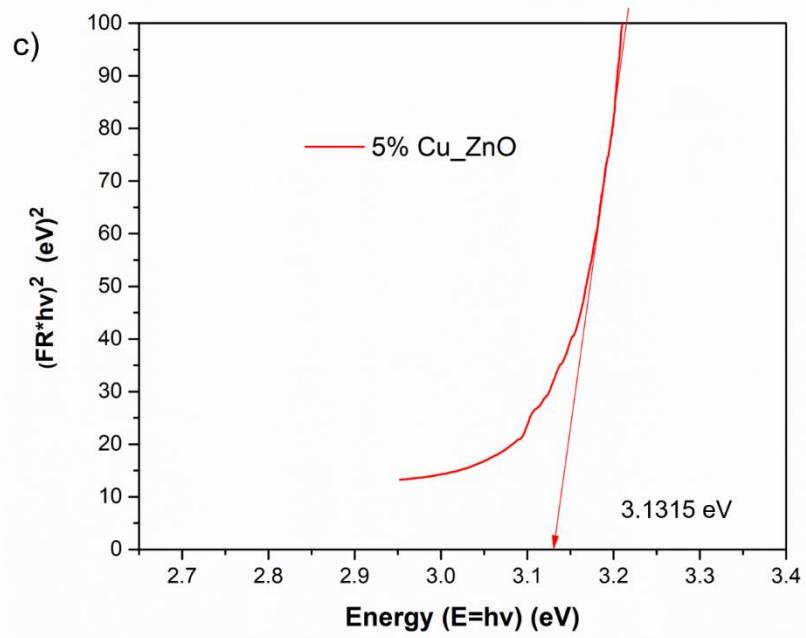
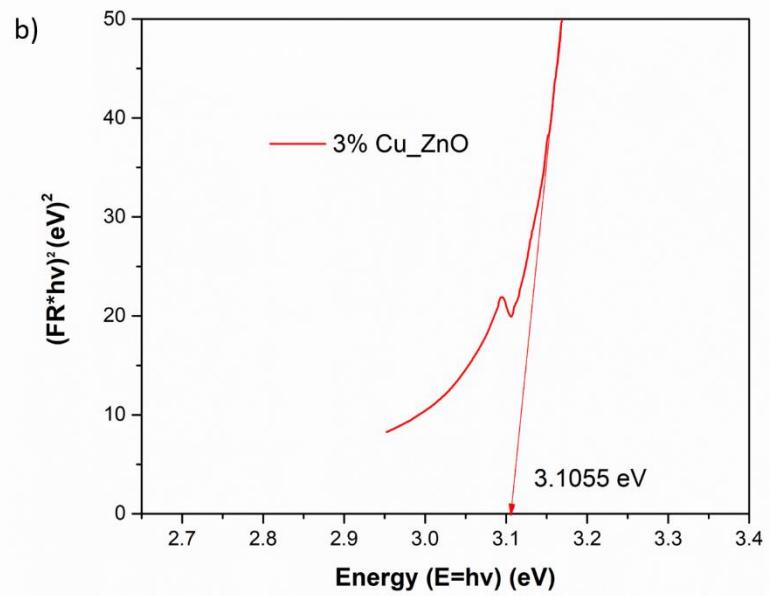


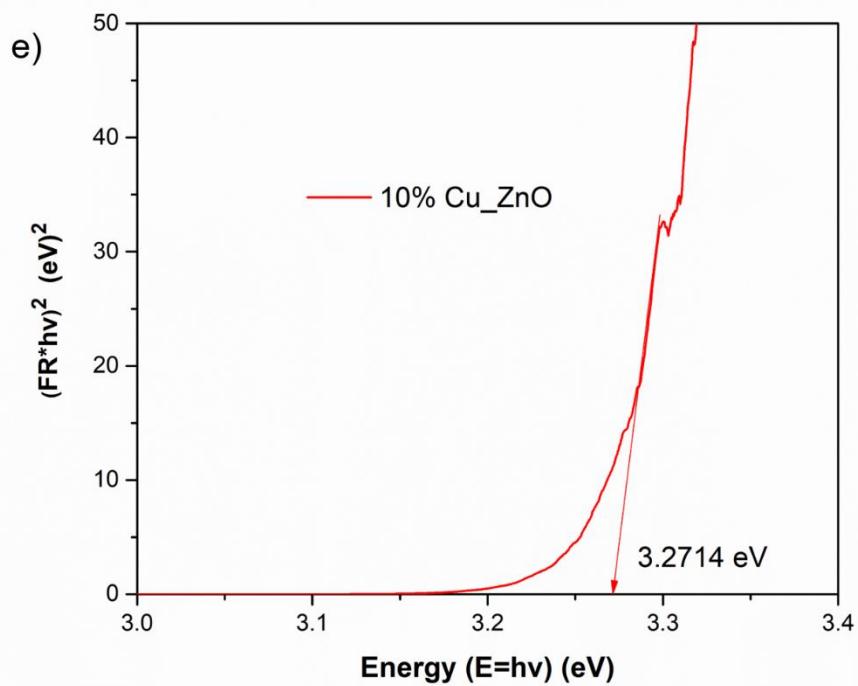
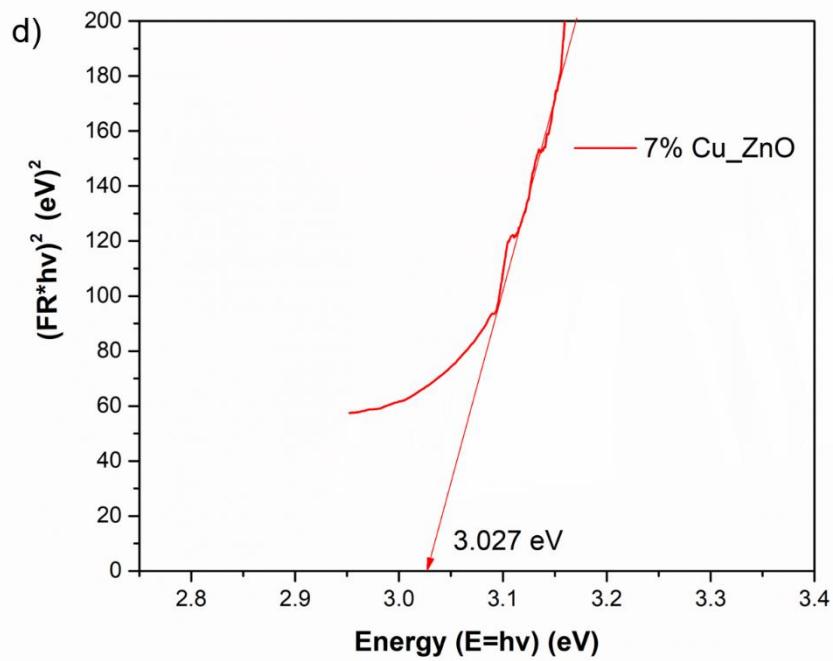
Fabrication and characterization of Cu–ZnO–cellulose acetate electrospun nanocomposite membranes for dual-function photocatalytic degradation and microbial inhibition

Supplementary Data

Figure S1: Tauc plots for 450°C Samples a) ZnO b) 3% Cu-ZnO c) 5% Cu-ZnO d) 7% Cu-ZnO e) 10% Cu-ZnO







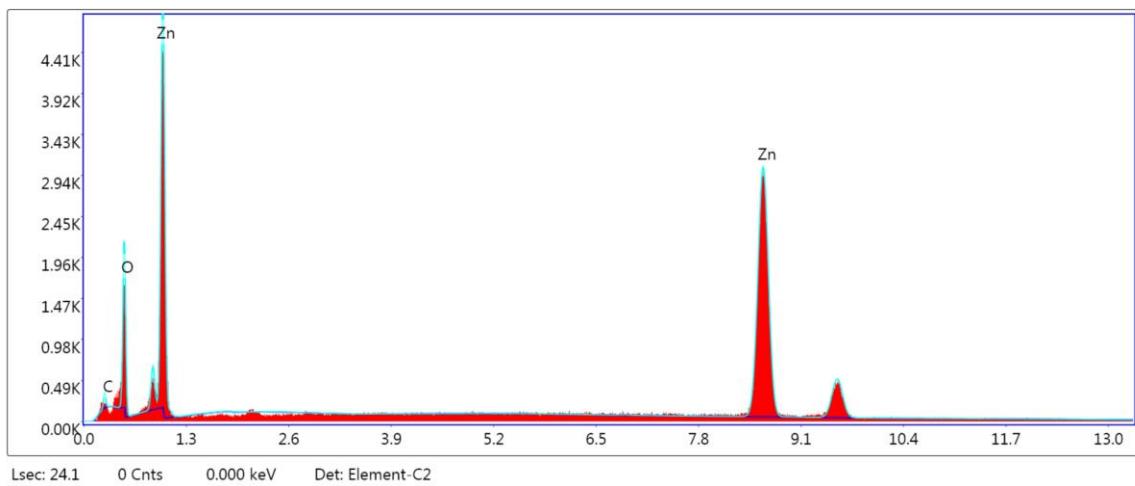


Figure S1: EDX for ZnO nanoparticles calcined at 450 °C

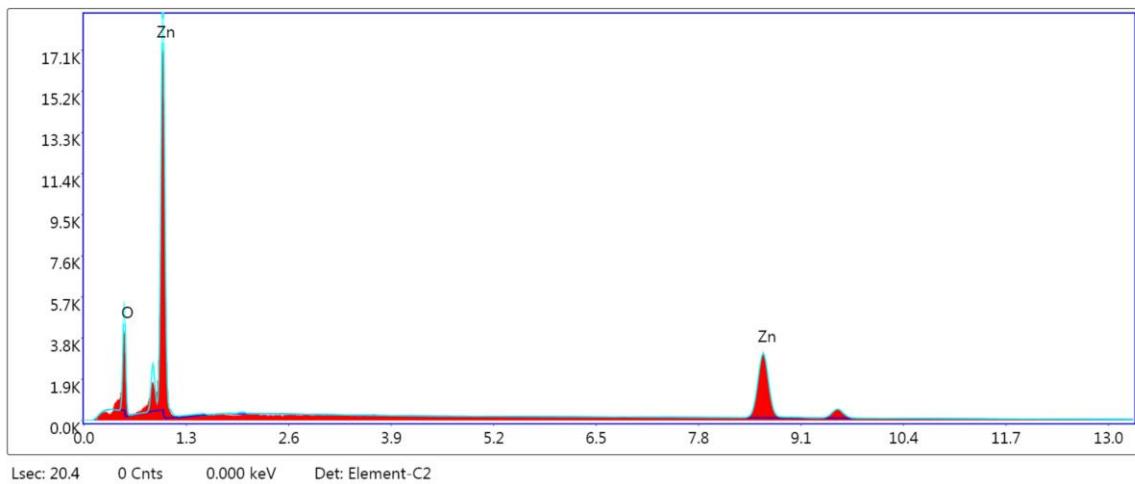


Figure S2: EDX for ZnO nanoparticles calcined at 650 °C

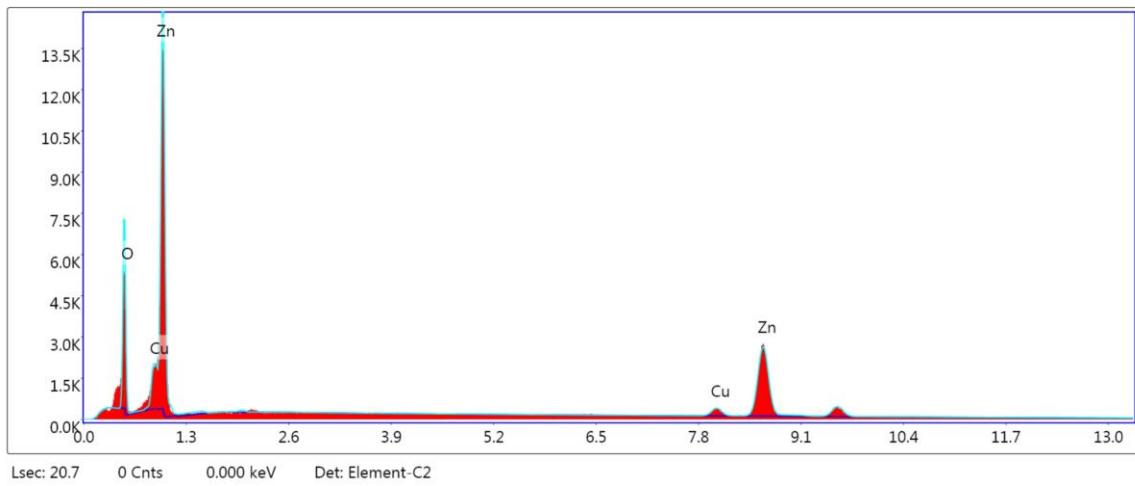


Figure S3: EDX for 7% Cu-ZnO nanoparticles calcined at 450 °C

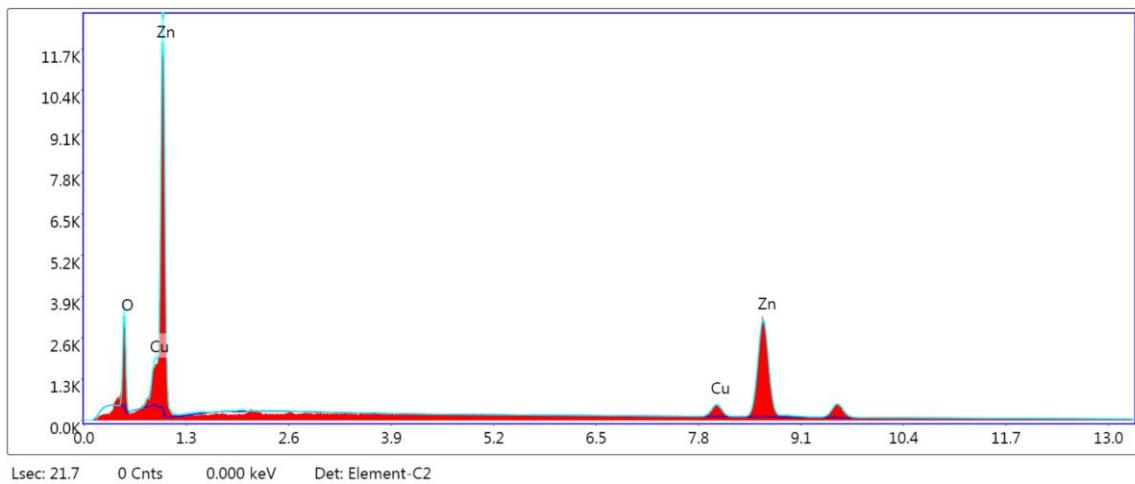


Figure S4: EDX for 7% Cu-ZnO nanoparticles calcined at 650 °C

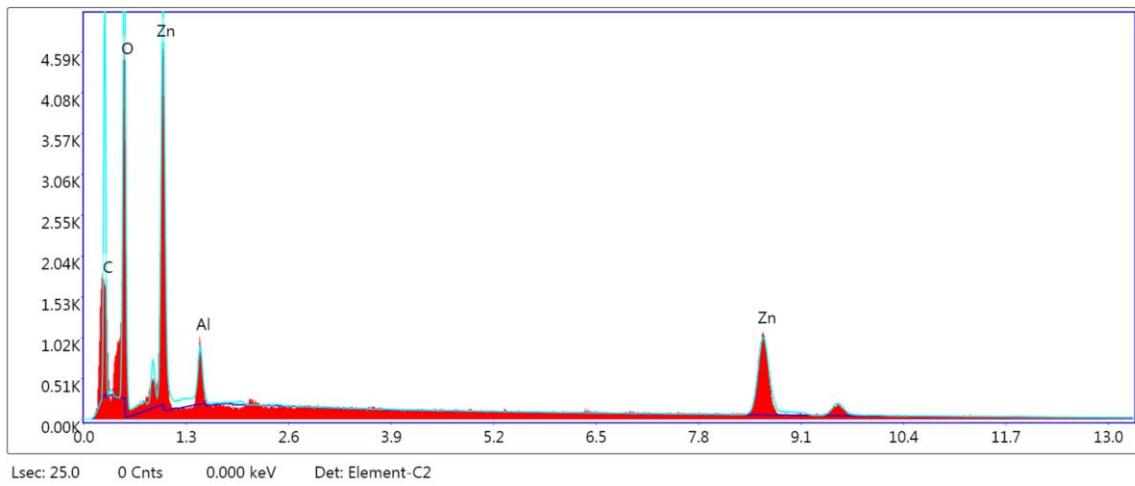


Figure S5 EDX for ZnO CA membrane

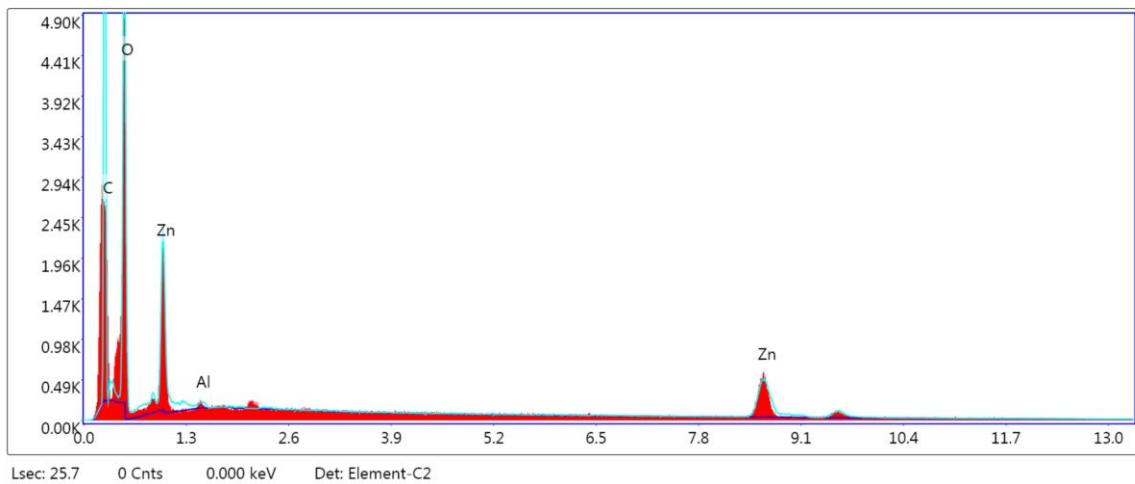


Figure S6 EDX for 7% Cu-ZnO CA membrane

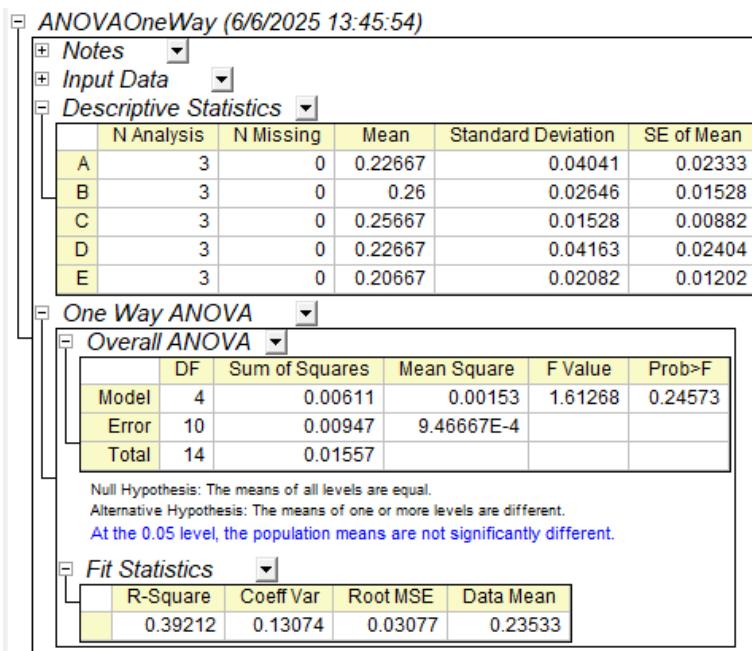


Figure S8: ANOVA results for Zn in ZnO mat

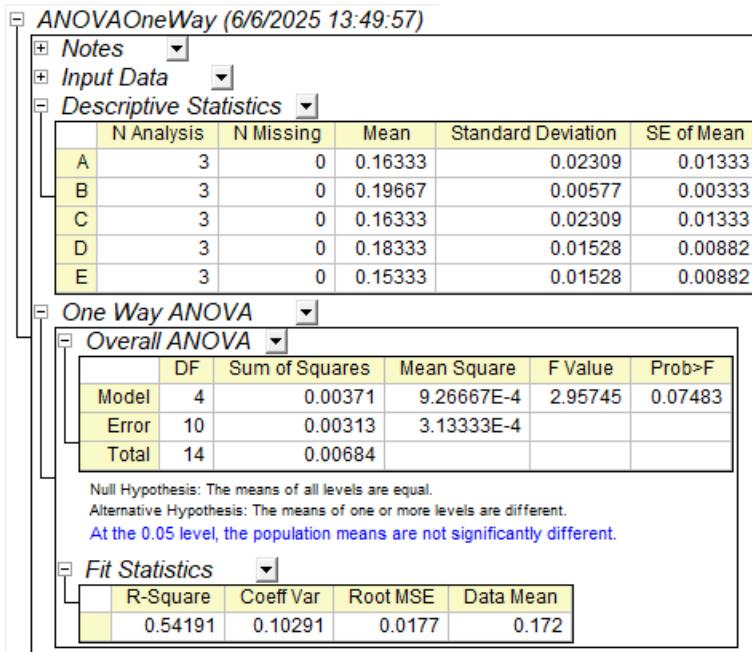


Figure S9: ANOVA results for Zn in 7% Cu_ZnO mat

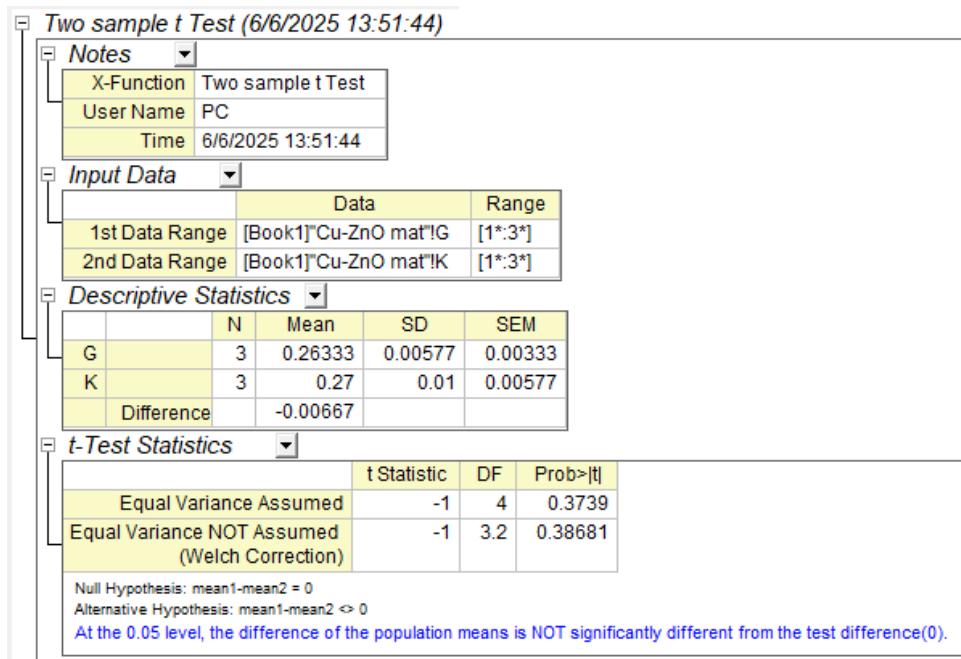


Figure S10: 2 sample T results for Cu in 7% Cu_ZnO mat

Figure S11

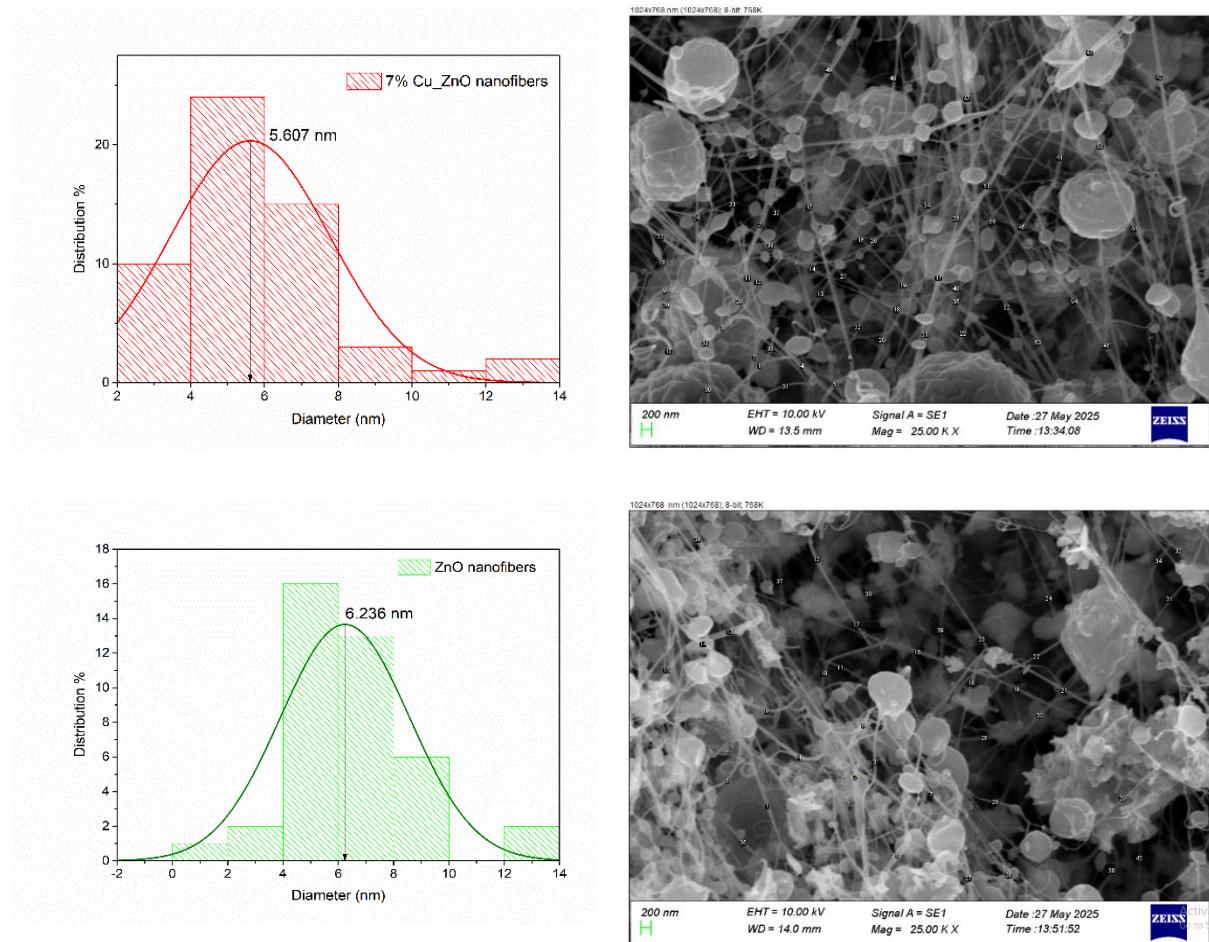
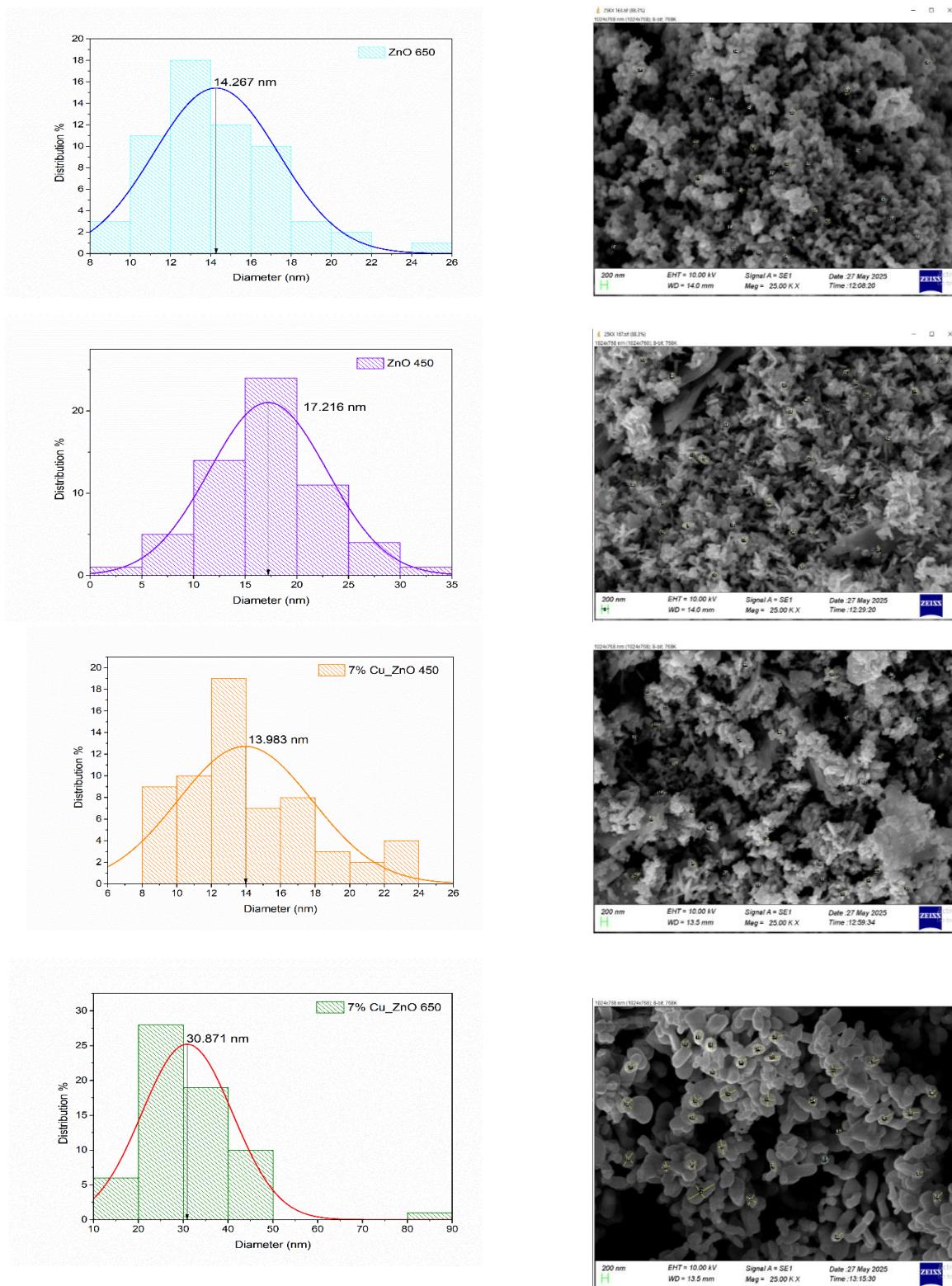


Figure S12



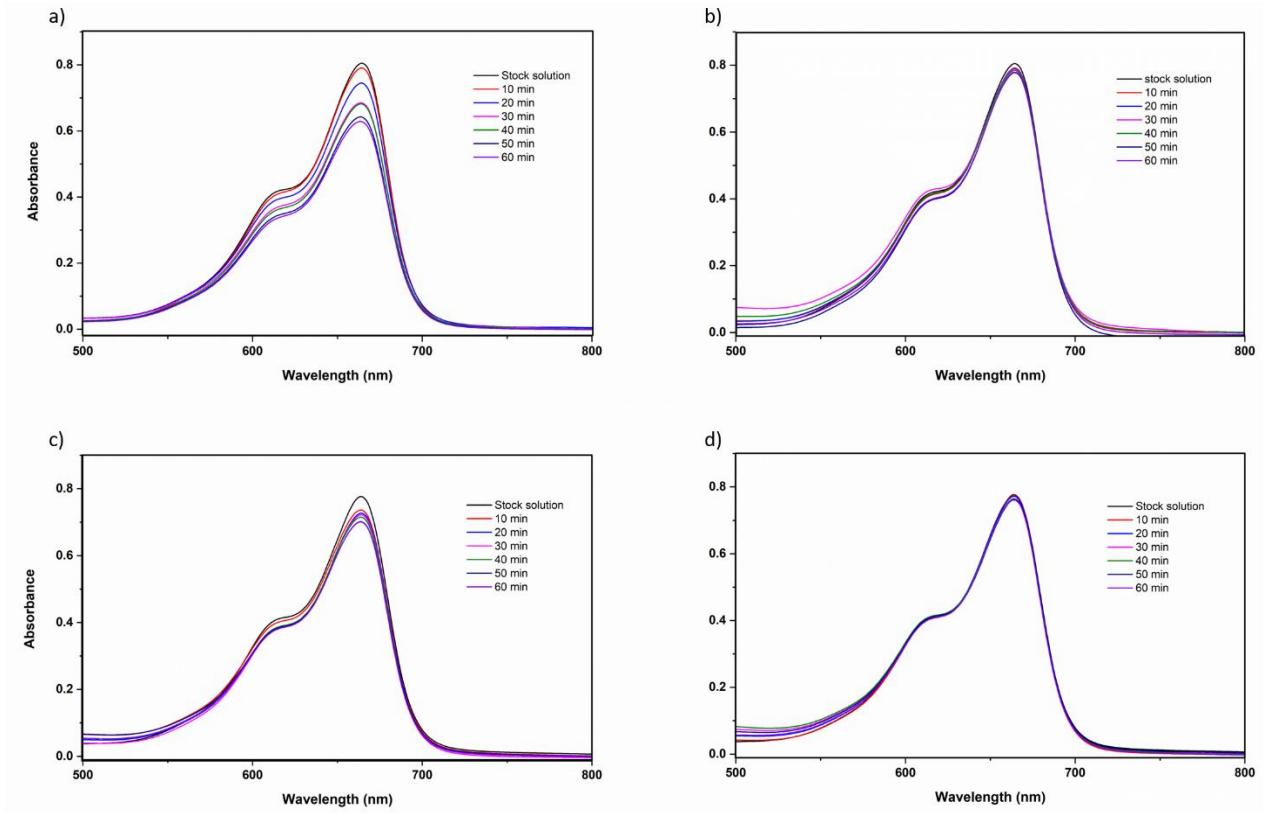


Figure S13: UV-Vis absorbance spectra for the degradation of MB dye; (a) ZnO (450°C) under visible light, (b) ZnO (450°C) under dark, (c) ZnO (650°C) under visible light, (d) ZnO (650°C) under dark.

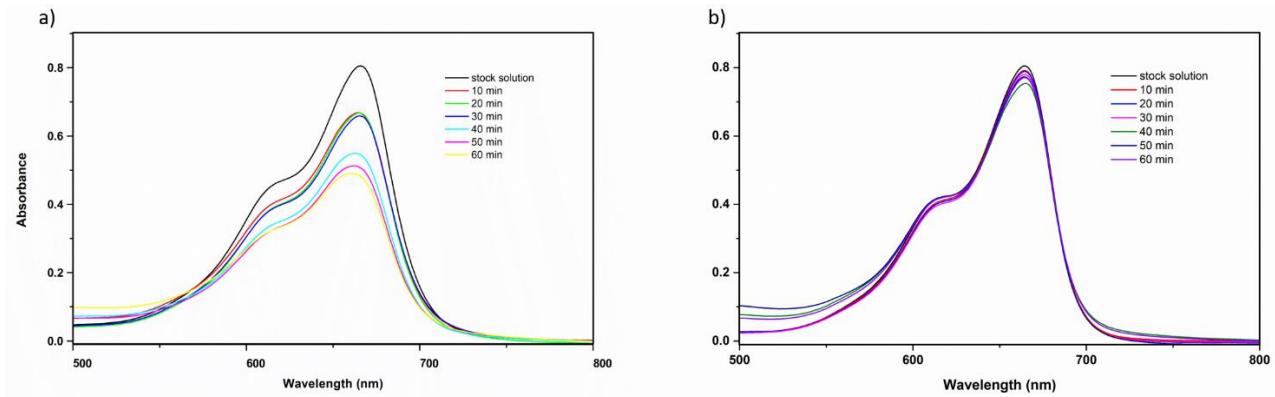


Figure S14: UV-Vis absorbance spectra for the degradation of MB dye; (a) 7% Cu-ZnO (450°C) under visible light, (b) 7% Cu-ZnO (450°C) under dark.

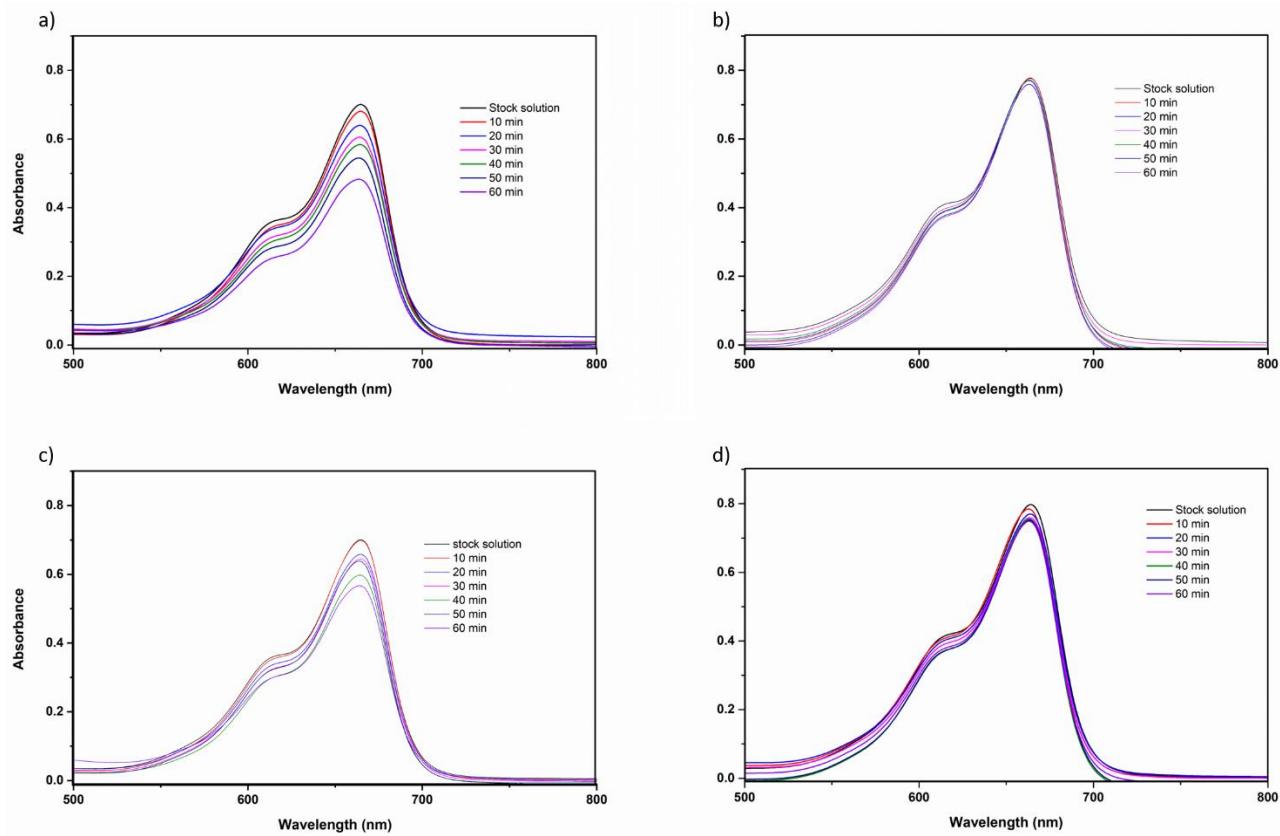


Figure S15: UV-Vis absorbance spectra for the degradation of MB dye; (a) 7% Cu-ZnO mat under visible light, (b) 7% Cu-ZnO mat under dark, (c) ZnO mat under visible light, (d) ZnO mat under dark.