

Supporting Information

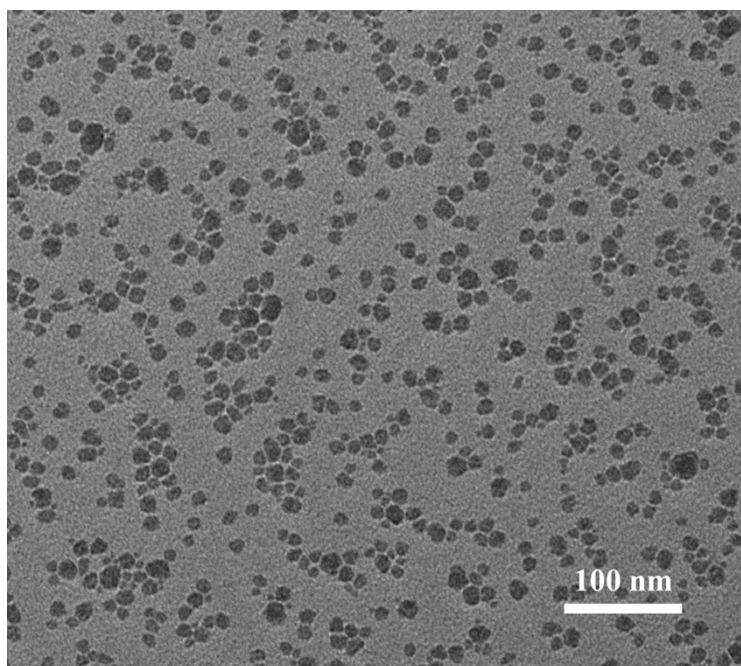


Figure S1. TEM image of SiO₂ particles

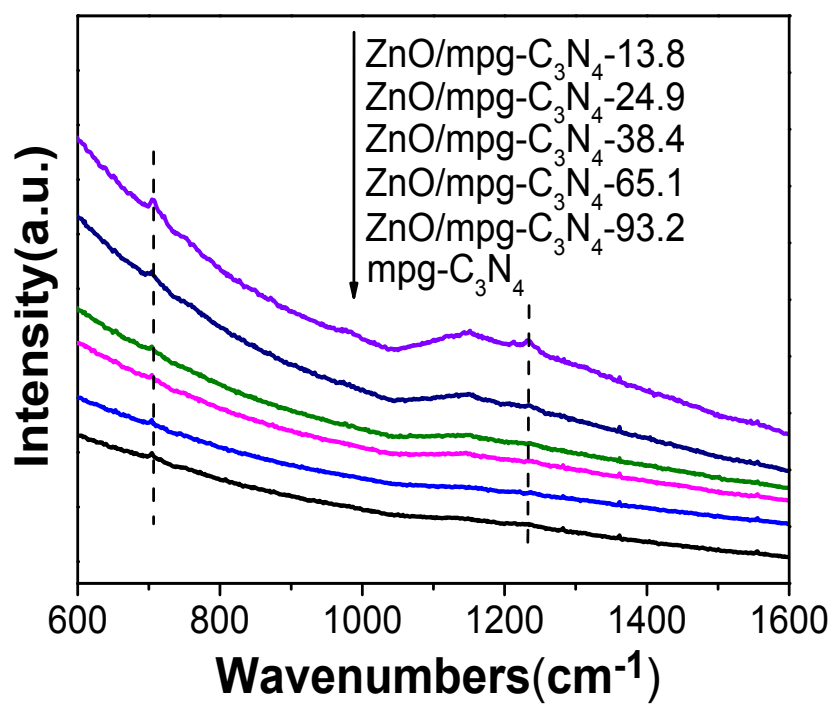


Figure S2. Raman spectra of ZnO, mpg- C_3N_4 and ZnO/mpg- C_3N_4 photocatalysts excited with UV-laser at 785 nm

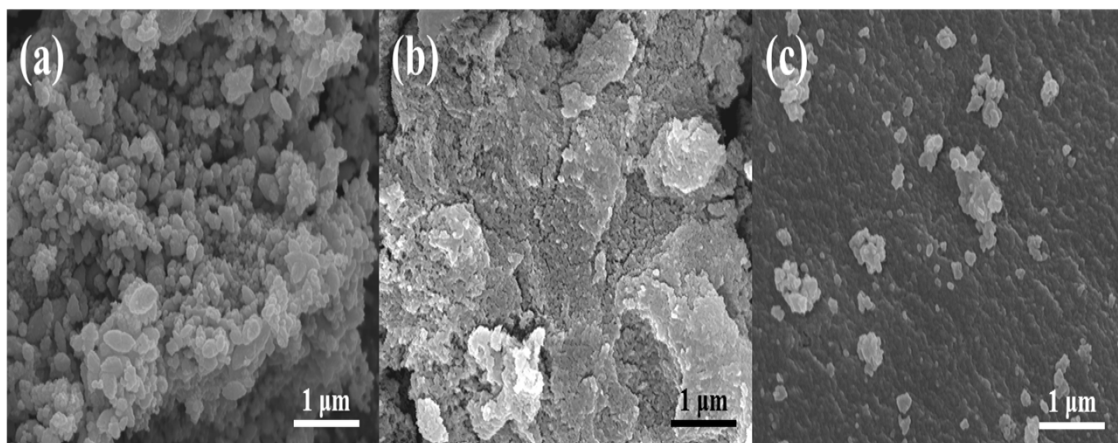


Figure S3. SEM images of (a) ZnO, (b) mpg-C₃N₄, (c) ZnO/mpg-C₃N₄

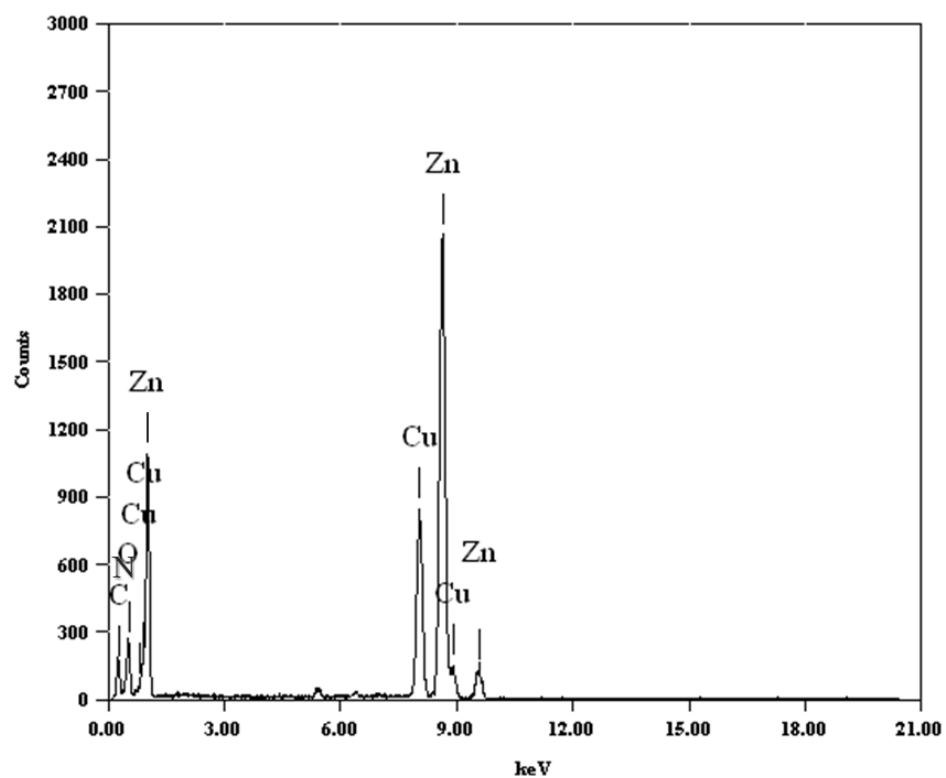


Figure S4. EDX patterns of the selected area in HTEM image of ZnO/mpg-C₃N₄-24.9

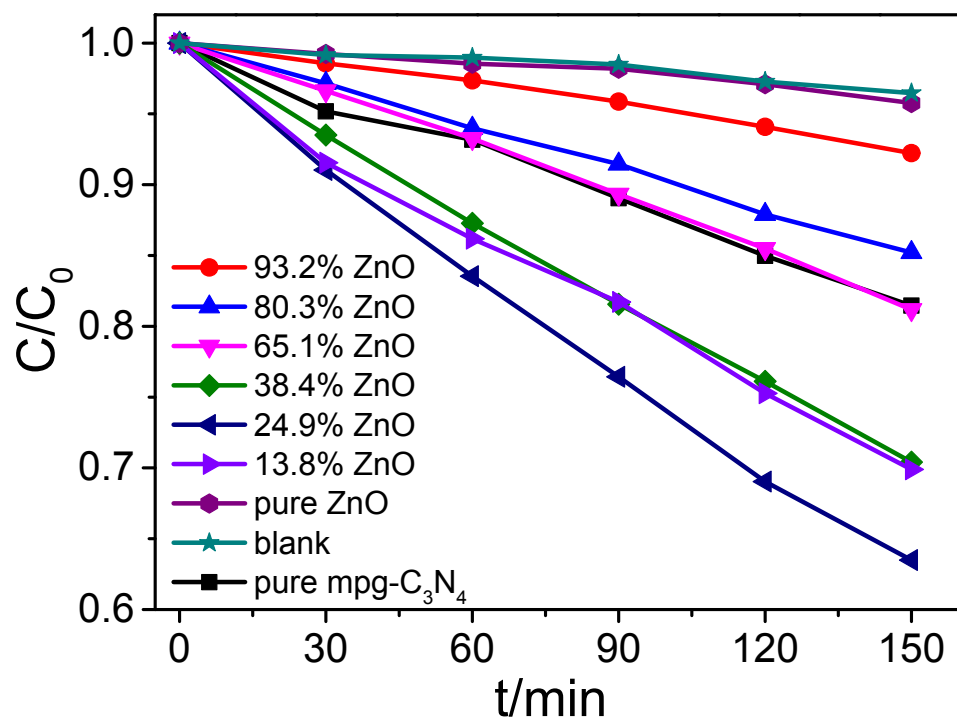


Figure S5. Photolysis of MB and photocatalytic degradation of MB over ZnO, mpg-C₃N₄ and ZnO/mpg-C₃N₄ photocatalysts under visible light irradiation ($\lambda > 420$ nm)

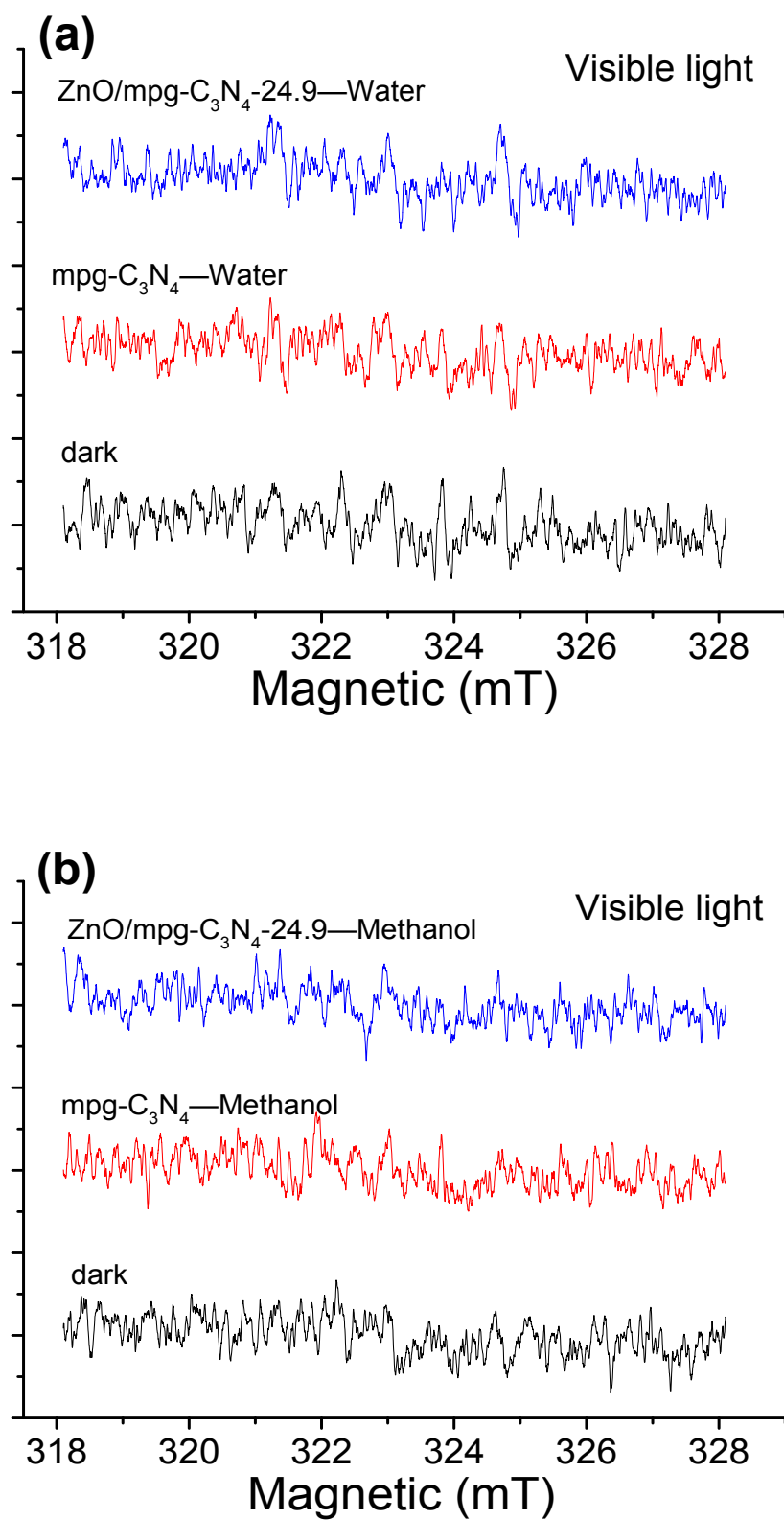


Figure S6. ESR spectra of mpg-C₃N₄ and ZnO/mpg-C₃N₄ photocatalysts photocatalysts in water and methanol solvents under visible light irradiation ($\lambda > 420\text{nm}$) (DMPO as the radical trapper)