

Supplementary data

Enhancement of Photocurrent and Photocatalytic activity of ZnO hybridized with Graphite-like C_3N_4

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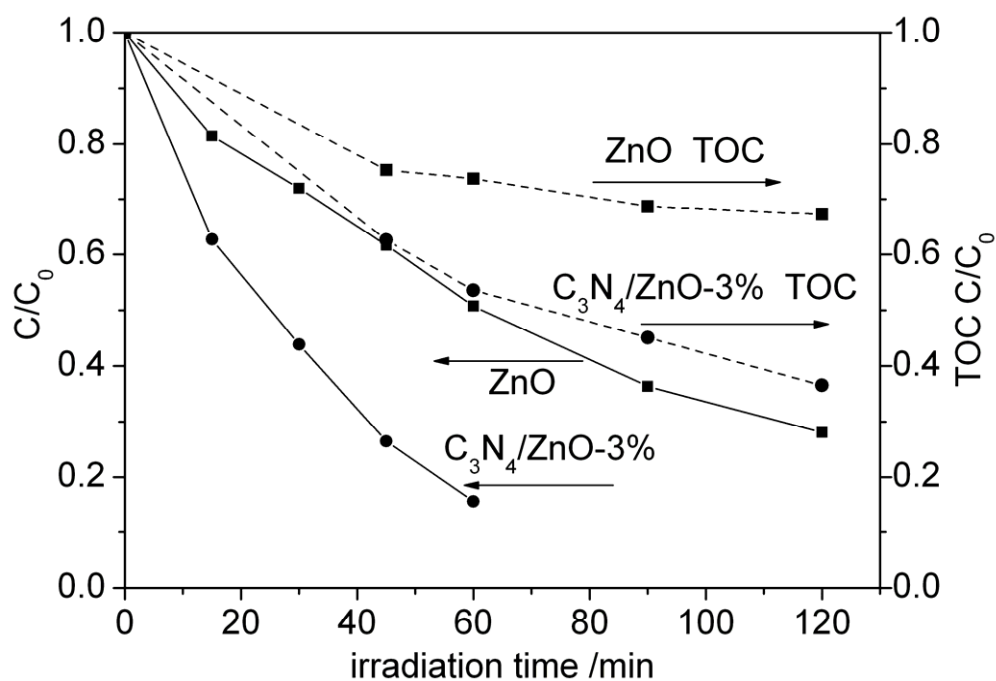


Figure S1 Changes in MB concentration and TOC under UV irradiation (λ = 254 nm) by the ZnO and C₃N₄/ZnO -3% photocatalyst.

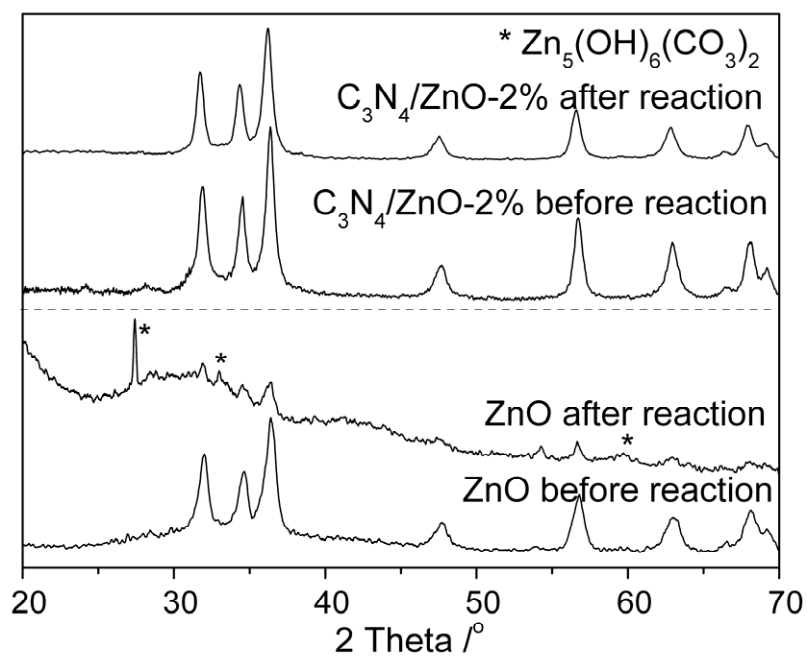


Figure S2 XRD patterns of ZnO and $C_3N_4/ZnO-2\%$ before and after 48 h photocatalytic degradation.

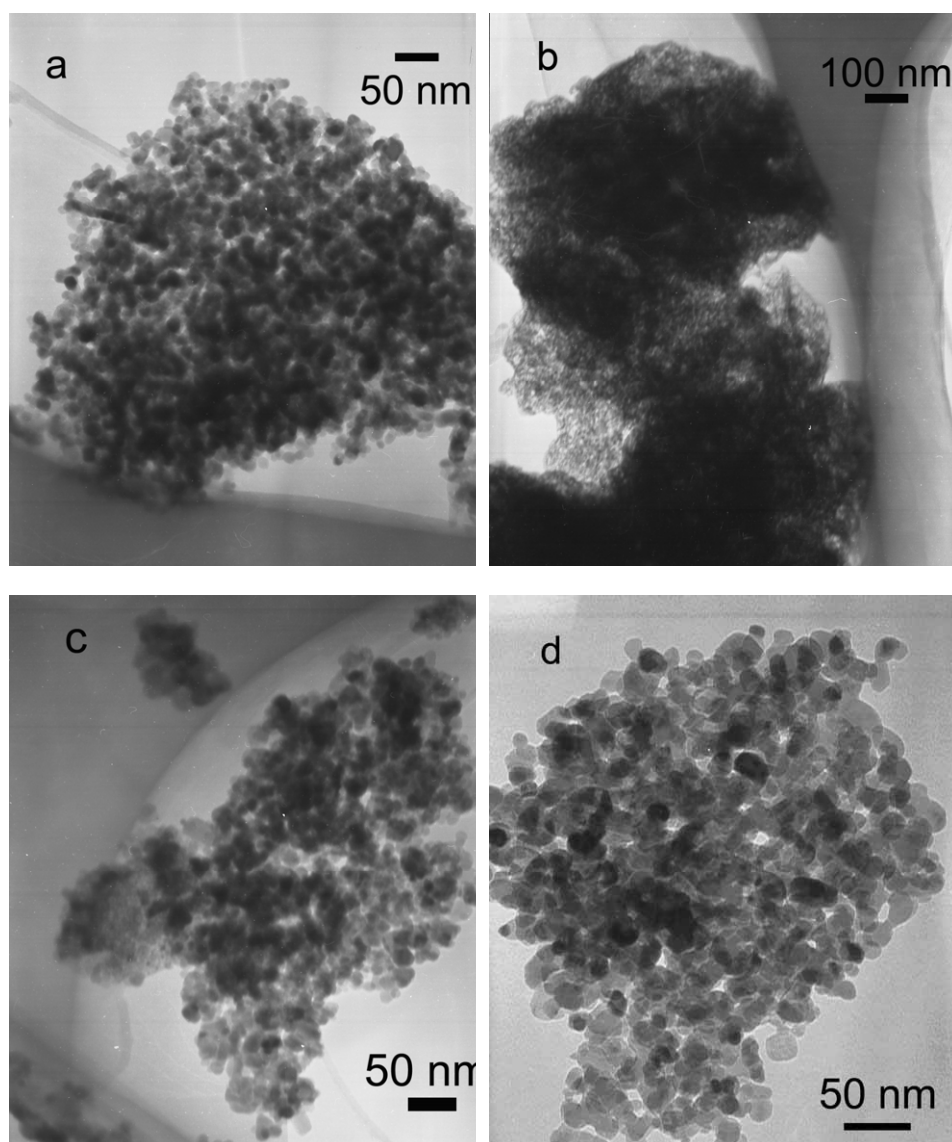


Figure S3 The TEM images of ZnO and C₃N₄/ZnO -2%: (a) ZnO before reaction, (b) ZnO after 48 h reaction, (c) C₃N₄/ZnO-2% before reaction, (d) C₃N₄/ZnO-2% after 48 h reaction. (UV light $\lambda = 254$ nm, average light intensity=0.8 mW/cm²)

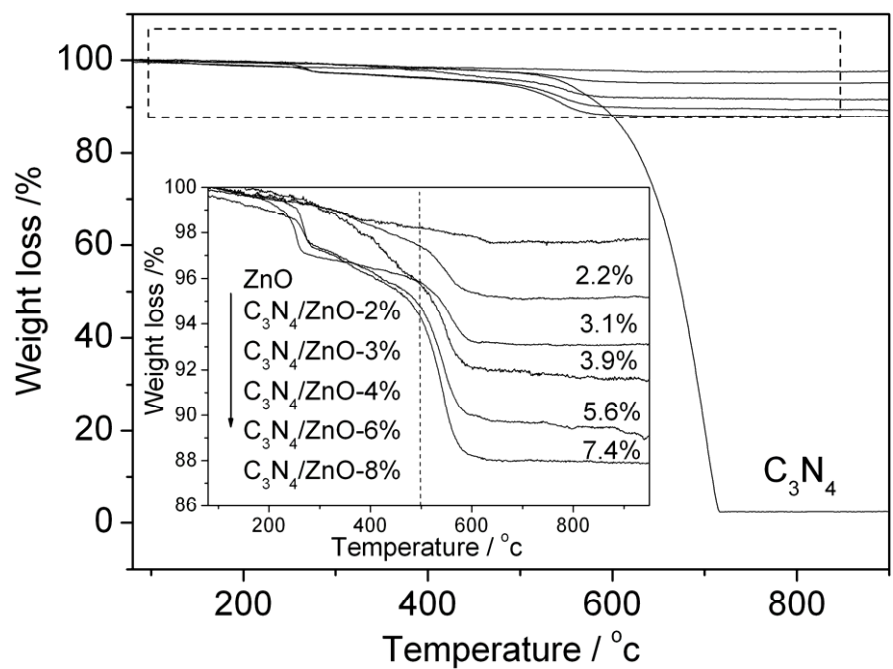


Figure S4 TG curves of C_3N_4 , ZnO and C_3N_4/ZnO photocatalysts in the presence of air. Insert: the amount of C_3N_4 hybridized on the surface of ZnO.

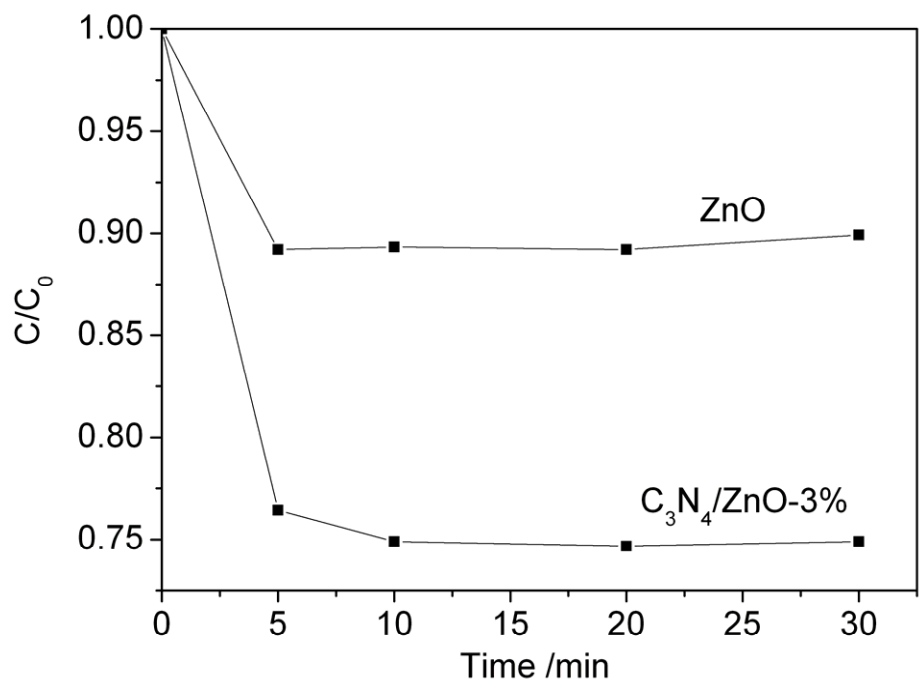


Figure S5 Changes in MB concentration in ZnO and C_3N_4/ZnO -3% photocatalytic system in dark.