

Figure S1. Histograms of the particle size distribution for (a) NiO and (b) TiO₂/2NiO.

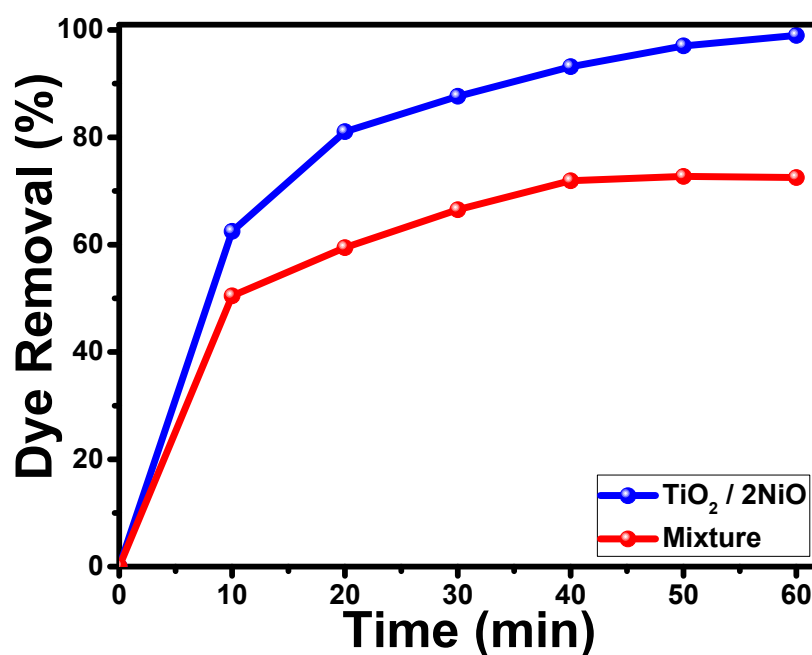


Figure S2. The photocatalytic performance of TiO₂/2NiO composite versus the performance of TiO₂/2NiO mixture.

As shown in Figure S1, we combined TiO₂ and NiO particles with ratio 1:2 and investigated the photocatalytic activity of the TiO₂/2NiO mixture versus the TiO₂/2NiO composite. The results demonstrate that the TiO₂/2NiO composite (approximately 99.8% after 60 min) has superior photocatalytic performance in comparison to the TiO₂/2NiO mixture (about 58.9% after 60 min). This is due to the TiO₂/2NiO composite generating p-n junctions.