

Supplementary Information

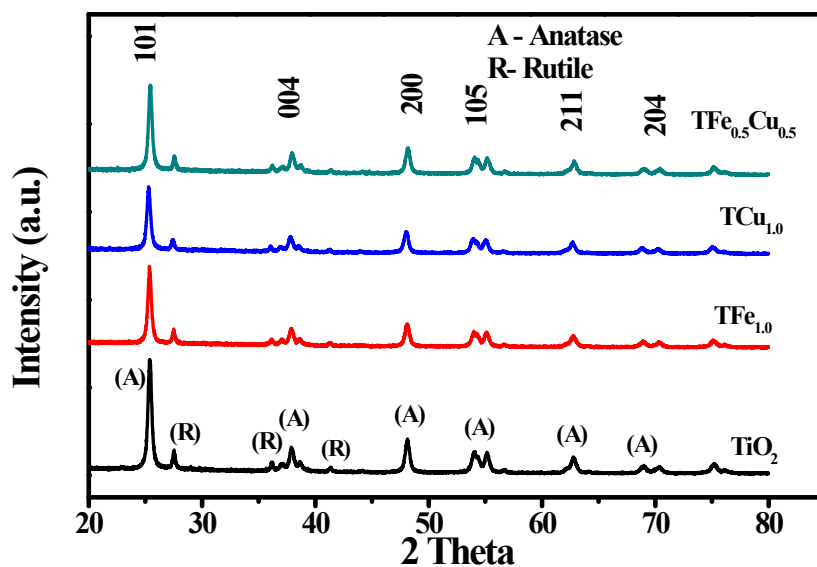


Figure S1: XRD pattern of pure TiO_2 , $\text{TFe}_{2.0}$, $\text{TCu}_{2.0}$, and $\text{TFe}_{1.0}\text{Cu}_{1.0}$

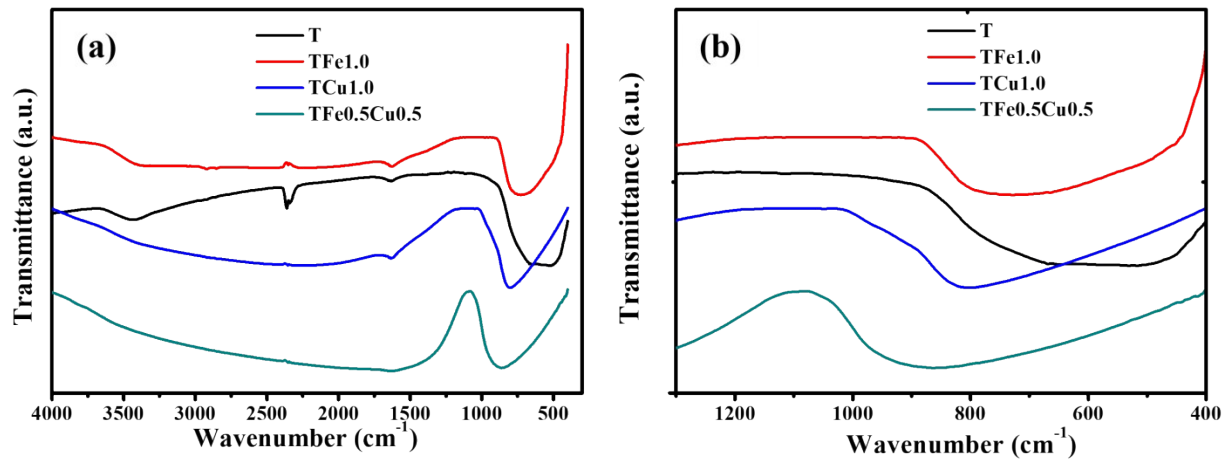


Figure S2: FTIR spectra (a) whole, and (b) finger print region of TiO_2 , $\text{TFe}_{1.0}$, $\text{TCu}_{1.0}$ and $\text{TFe}_{0.5}\text{Cu}_{0.5}$

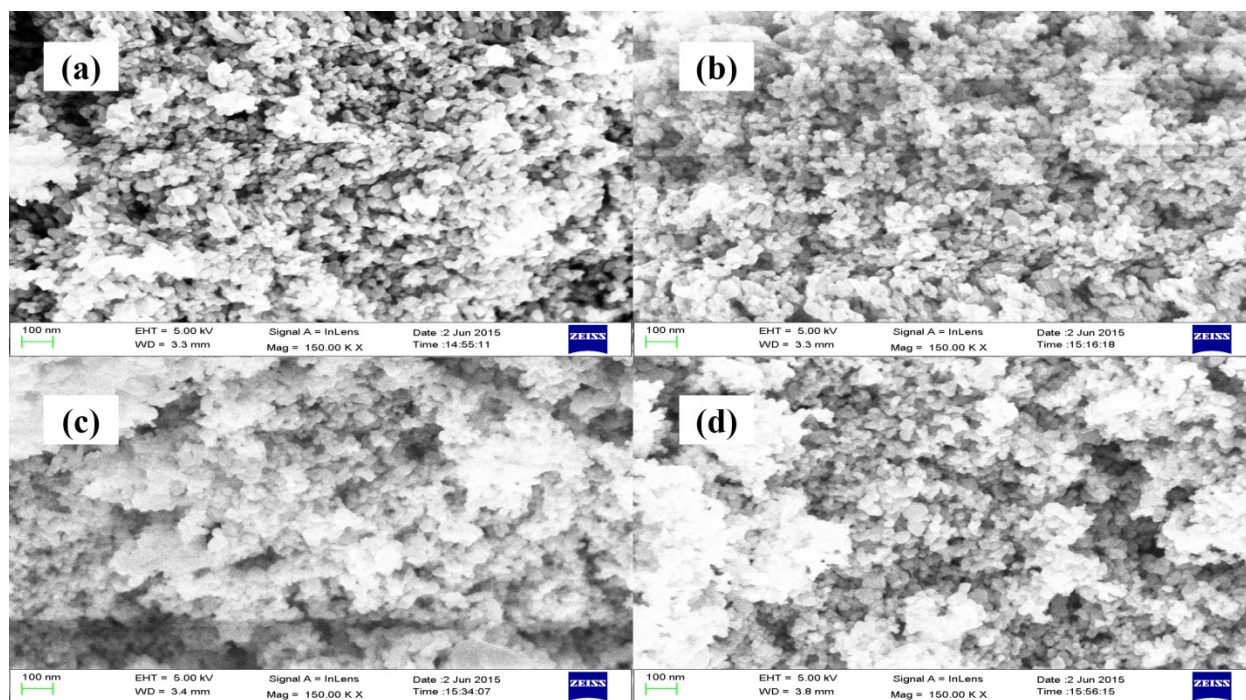


Figure S3: FESEM micrographs of (a) TiO_2 , (b) $\text{TFe}_{1.0}$, (c) $\text{TFe}_{0.5}\text{Cu}_{0.5}$, and (d) $\text{TFe}_{1.0}$

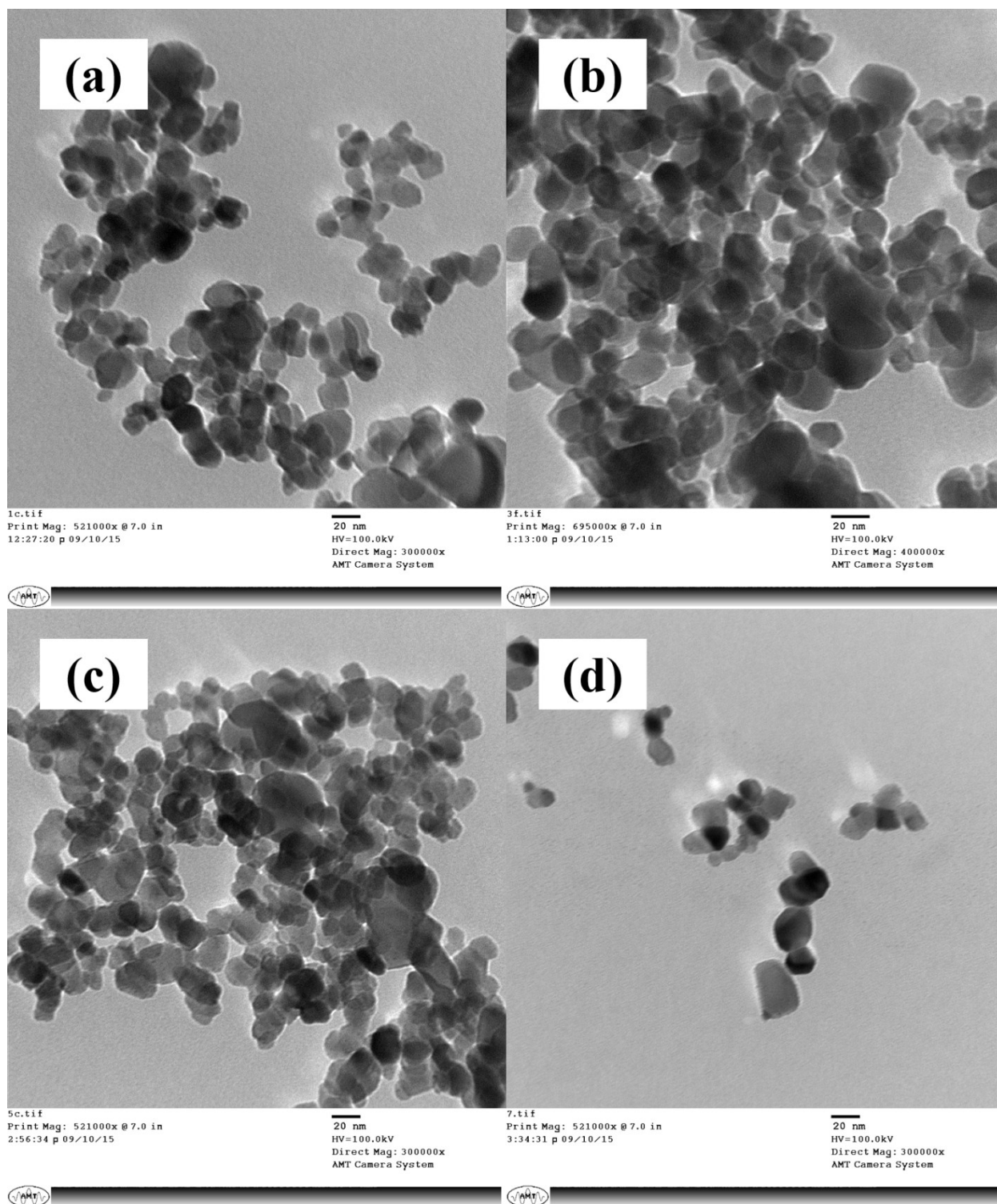


Figure S4: TEM micrographs of (a) TiO_2 , (b) $\text{TFe}_{1.0}$, (c) $\text{TCu}_{1.0}$, and (d) $\text{TFe}_{0.5}\text{Cu}_{0.5}$