

Figure S1 (a) Top SEM images of the FeO_x@NCD with arrow pointed to impregnated FeO_x in carbon matrix. (b) SEM images of FeO_x@NCD with corresponding elemental mapping images for iron (c), carbon (d), oxygen (e), and nitrogen (f).

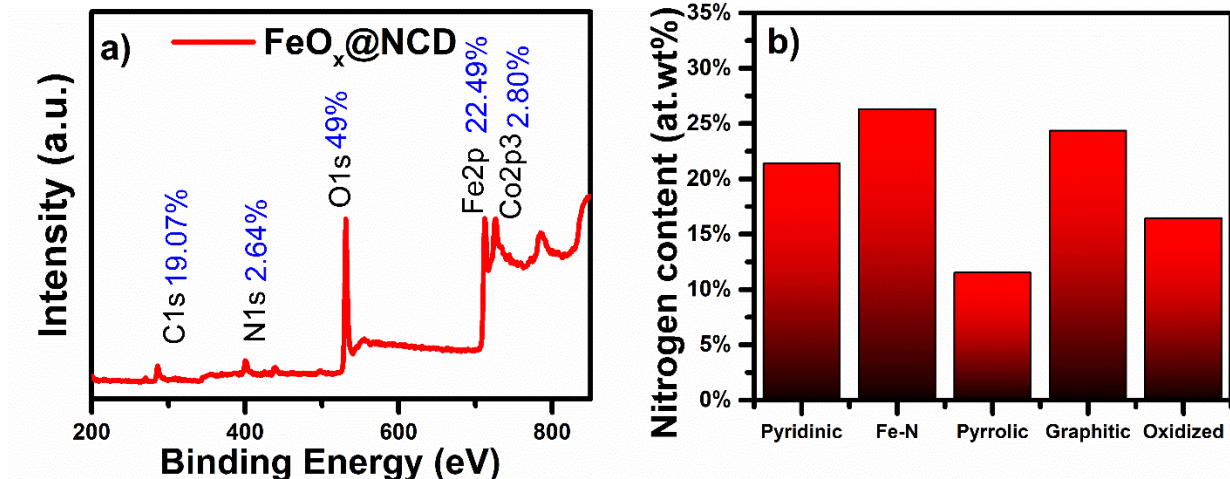


Figure S2. (a) XPS survey spectrum of the FeO_x@NCD, (b) the contents of different types of nitrogen in the FeO_x@NCD.

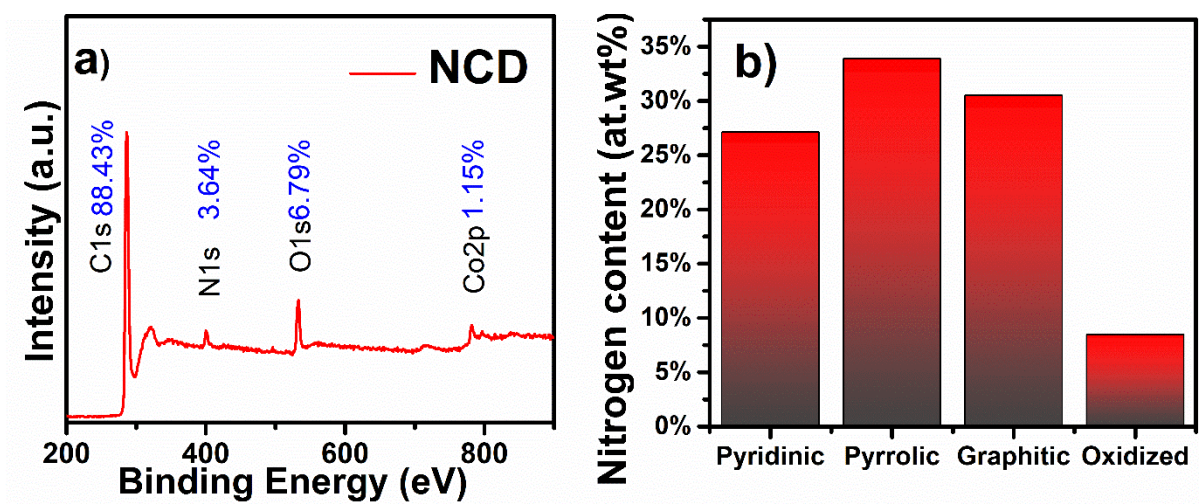


Figure S3. (a) XPS survey spectrum of the NCD, (b) the contents of different types of nitrogen in the NCD.

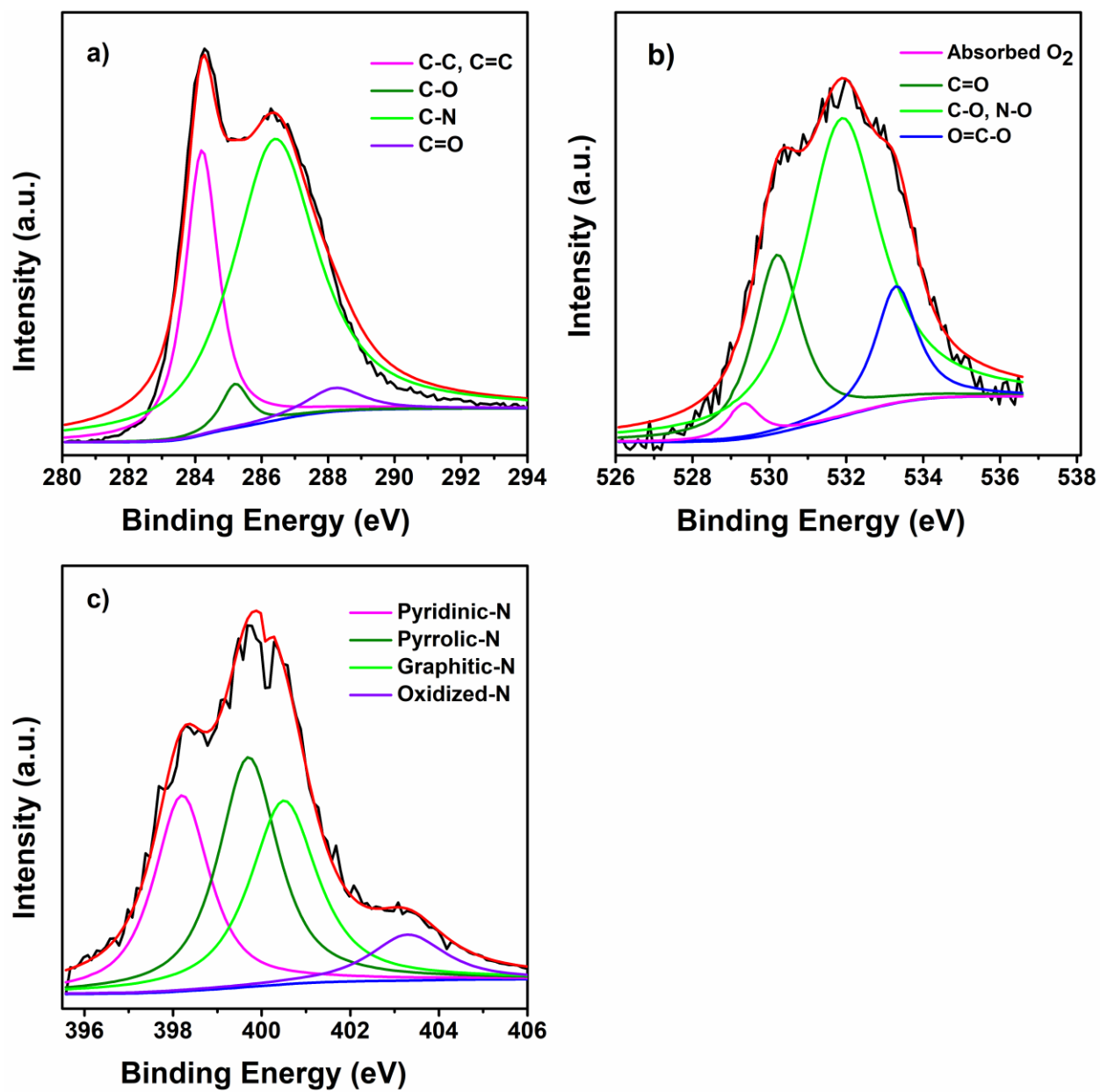


Figure S4. High resolution XPS spectra of C 1s (a), O 1s (b), and N 1s (c) of NCD.

