

Electronic Supplementary Information

Figure S1

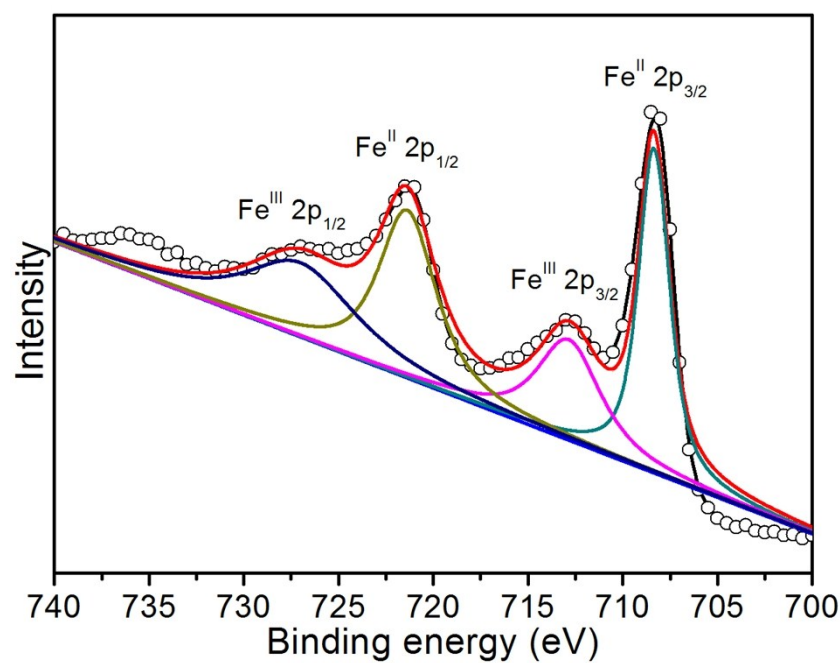


Figure S1 High resolution XPS spectra of Fe 2p orbital for TPBHS.

Figure S2

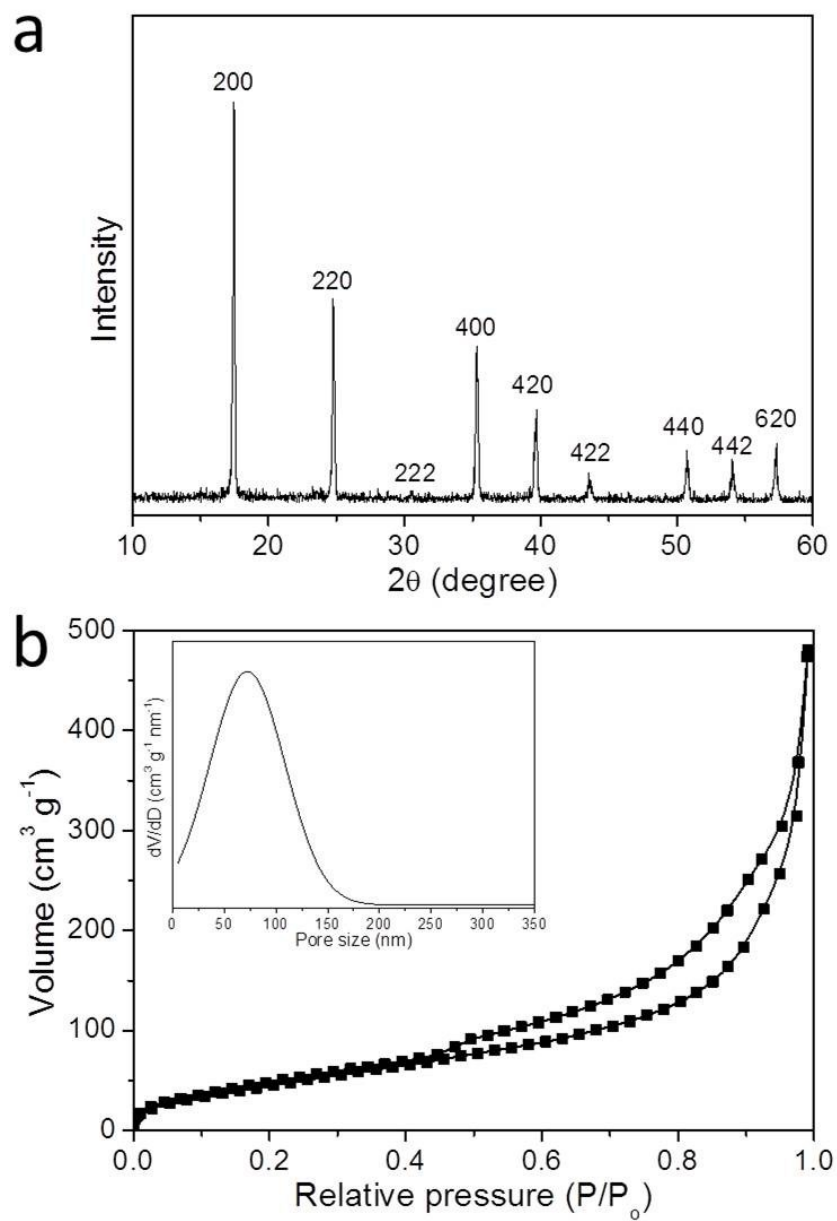


Figure S2 a) Wide-angle XRD patterns and b) Nitrogen gas adsorption-desorption isotherms of TPBHS (inset; pore size distribution curve).

Figure S3

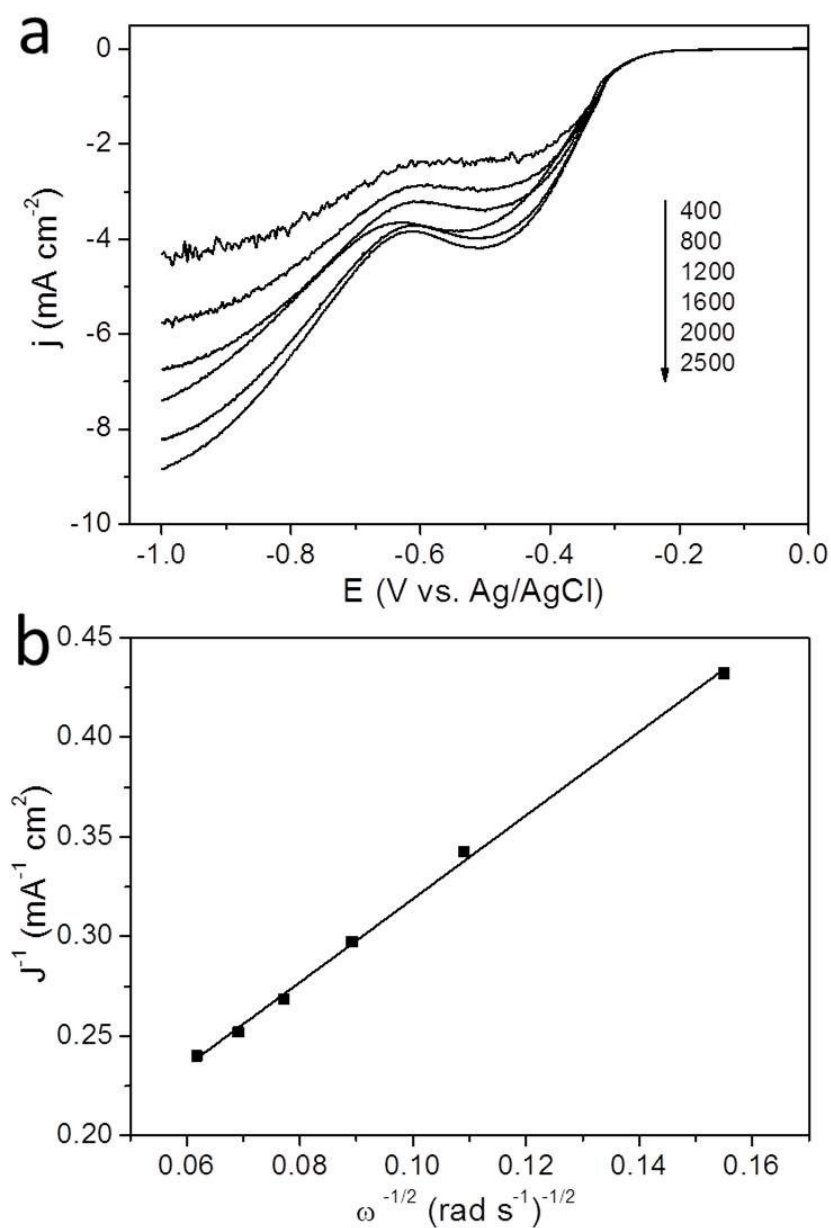


Figure S3 a) Polarization curves of NIC at different rotation rates in O_2 -saturated 0.1 M KOH solutions with a scan rate of 10 mV s^{-1} and b) the corresponding Koutecky-Levich plot of j^{-1} vs. $\omega^{-1/2}$. These measurements were carried out using Pt-wire as a counter electrode.

Figure S4

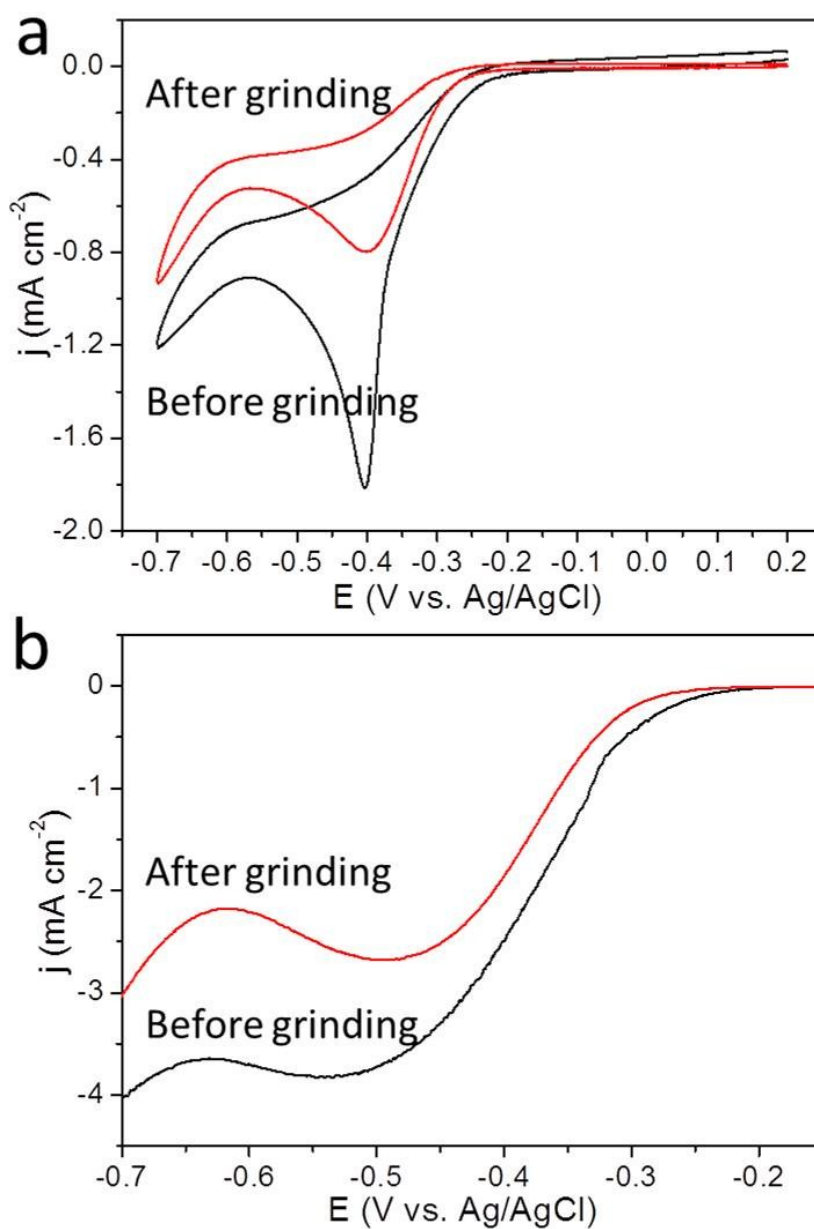


Figure S4 a) Cyclic voltammetric curves obtained under O_2 -saturated 0.1 M KOH solutions catalyzed by NIC a scan rate of $20\ mV\ s^{-1}$ before and after grinding. b) ORR polarization curves of the rotating disk electrode modified with NIC in an O_2 -saturated 0.1 M KOH solution at a rotation rate of 1600 rpm and a scan rate of $10\ mV\ s^{-1}$ before and after grinding.