# Supporting Information

# Highly Exposed Fe-N$_4$ Active Sites in Porous Poly-Iron-Phthalocyanine based Oxygen Reduction Electrocatalyst with Ultrahigh Performance for Air Cathode

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*Key Laboratory of Design and Assembly of Functional Nanostructures, Fujian Provincial Key Laboratory of Nanomaterials, Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, 155 Yangqiao Road West, Fuzhou, 350002, Fujian, P. R. China.*
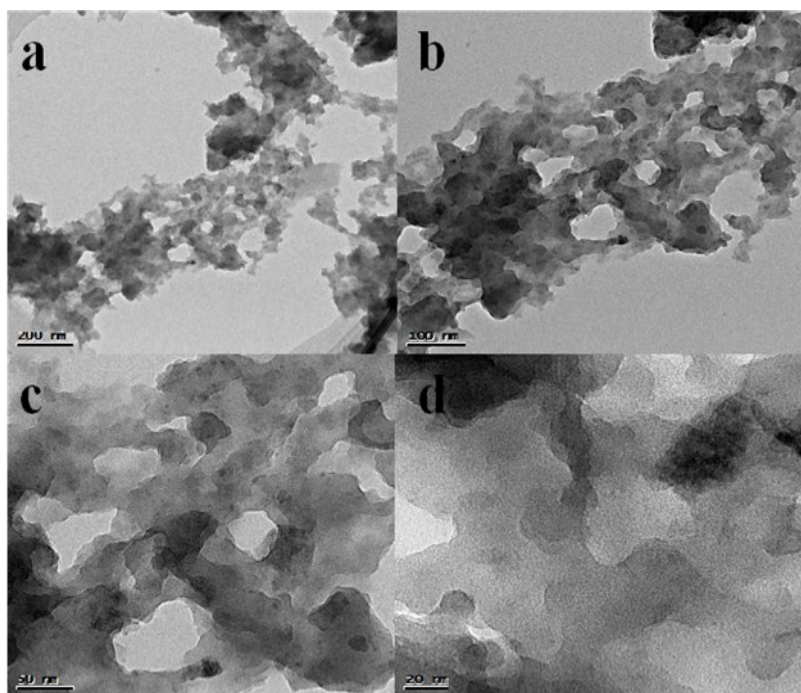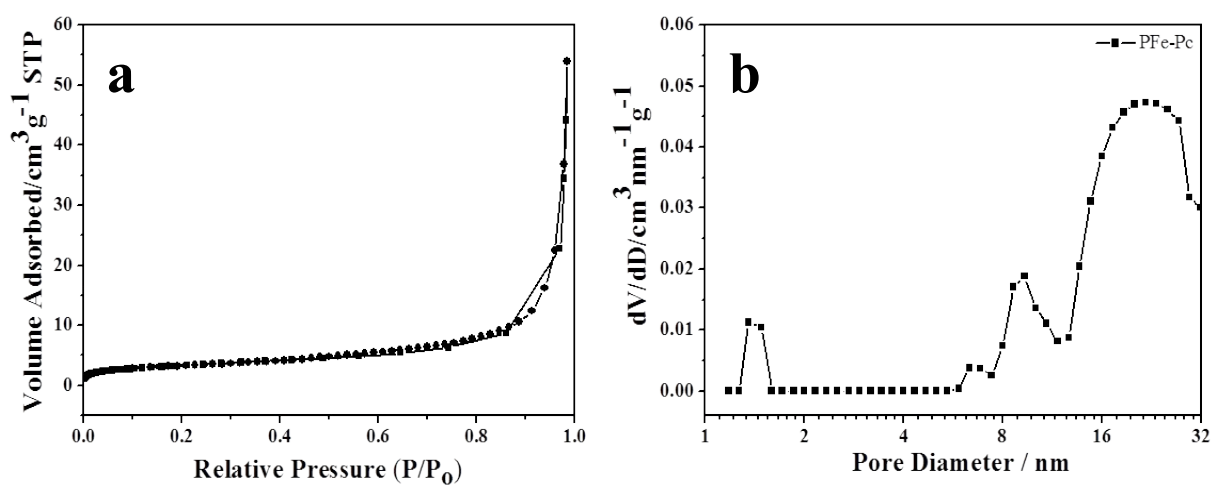
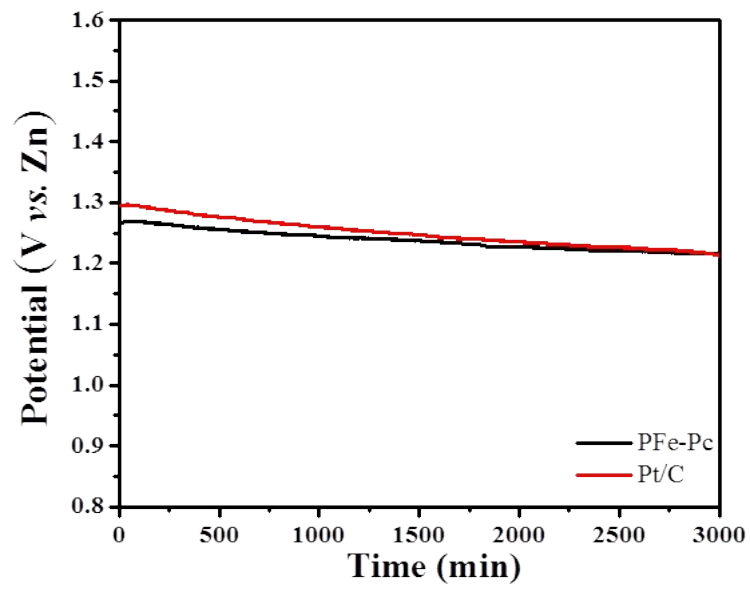**Fig. S1** TEM images of PFe-Pc electrocatalyst.
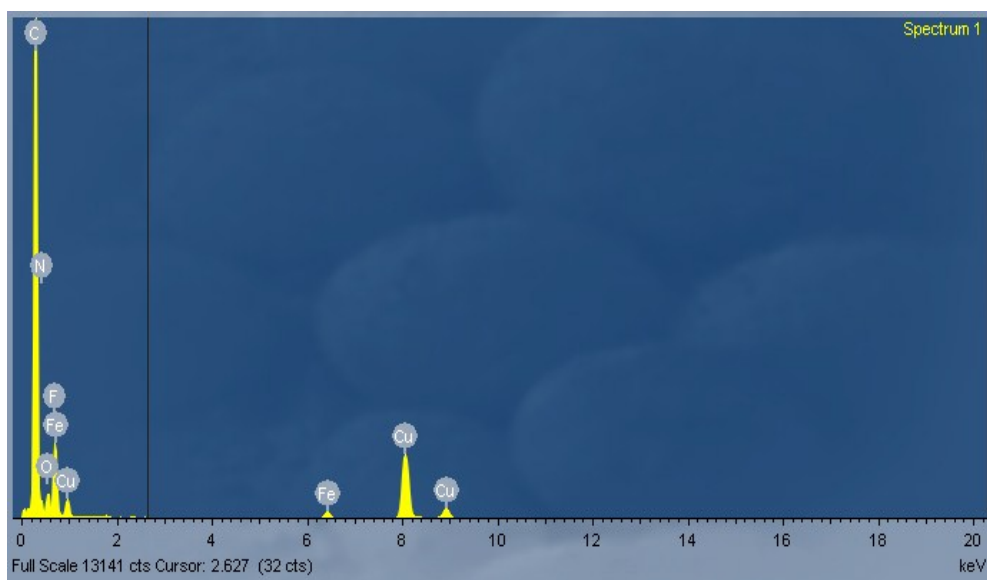


**Fig. S2** EDX spectrum of PFe-Pc electrocatalyst. The Cu signals were from the copper grid used in the TEM test.
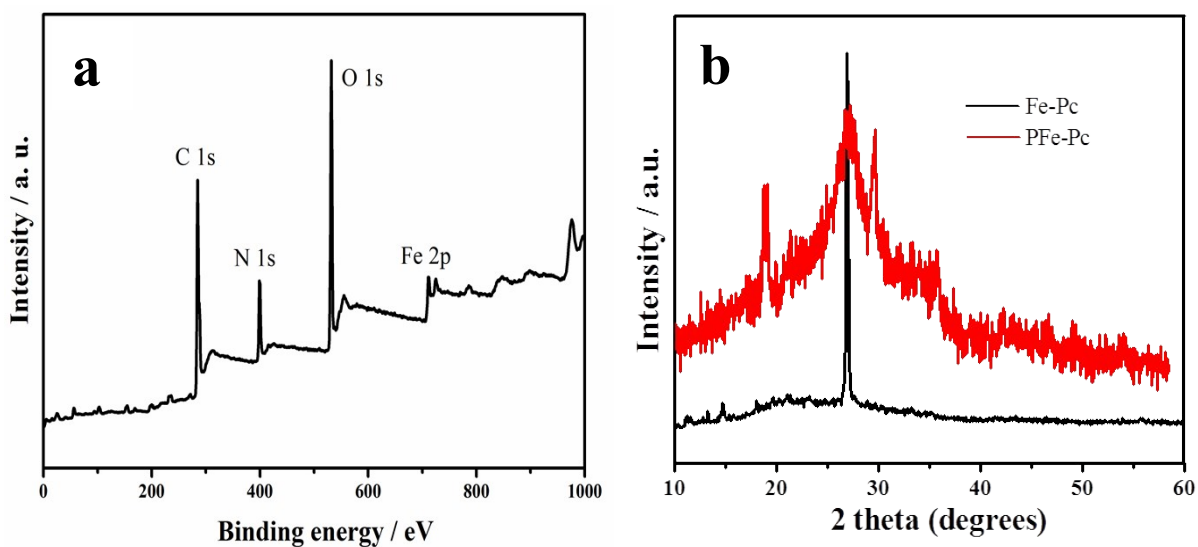
**Fig. S3** (a) XPS survey spectrum of PFe-Pc and (b) XRD patterns of PFe-Pc electrocatalyst.



**Fig. S4** (a) $N_2$ adsorption-desorption isotherms and (b) pore size distributions of PFe-Pc electrocatalyst.

**Fig. S5** Stability curve of Zn-air cells with PFe-Pc and Pt/C as cathode electrocatalysts at current density of 10 mA cm$^{-2}$