

Ni-Fe Bimetallic Carbon Nanotube Catalysts Derived from a Two-Dimensional Metalloporphyrin Fe-MOF Precursor for Oxygen Reduction and Oxygen Evolution Reactions

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Supplementary Information

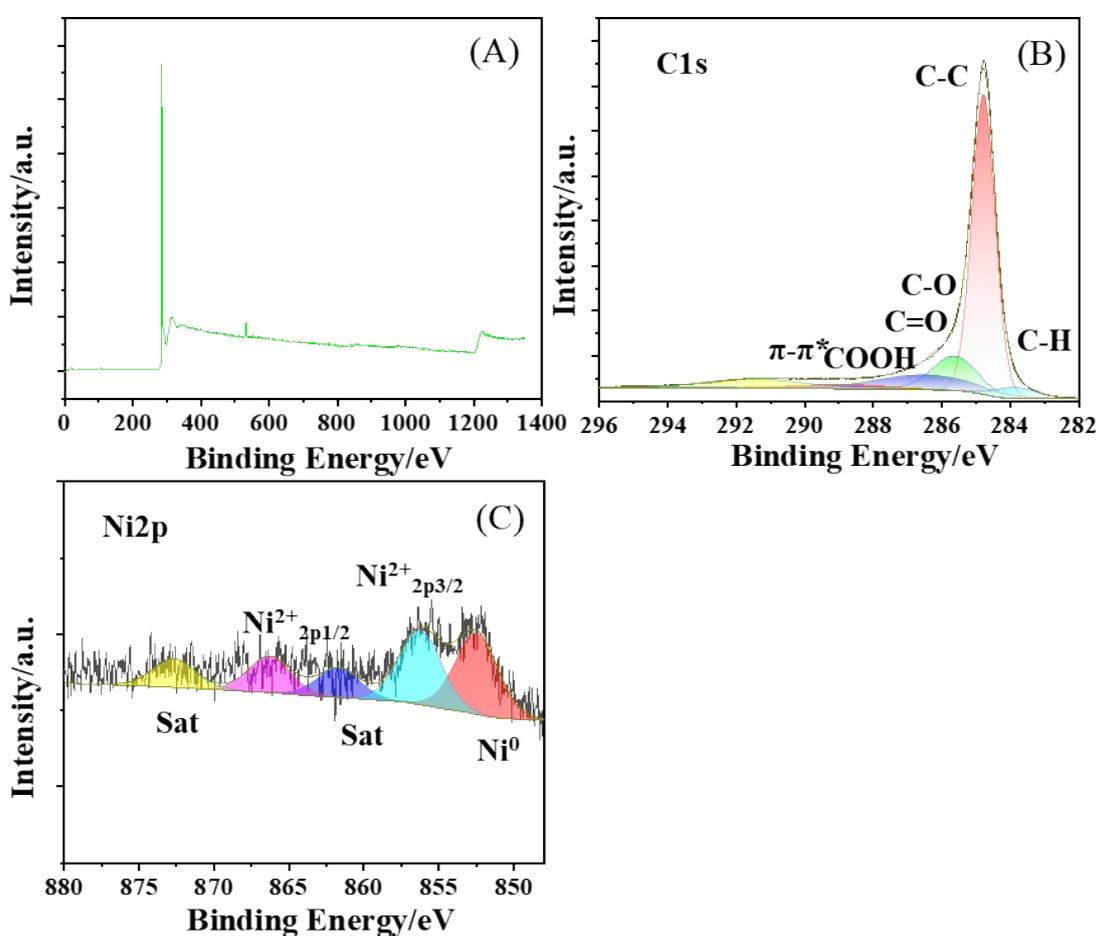


Fig. S1 XPS spectra of Ni@CNT. (A) general scan, (B) C 1s, (C) Ni 2p.

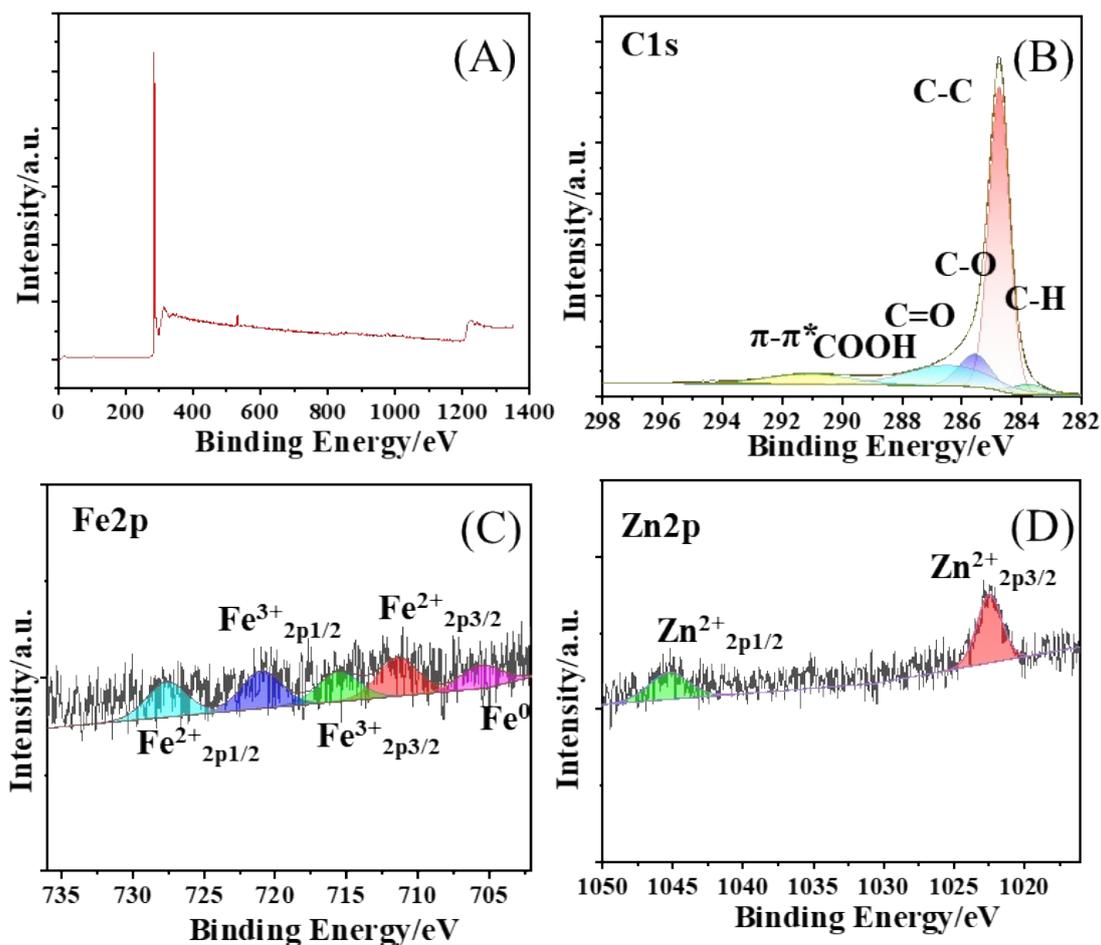


Fig. S2 XPS spectra of ZnFe@CNT. (A) general scan, (B) C 1s, (C) Fe 2p, (D) Zn 2p.

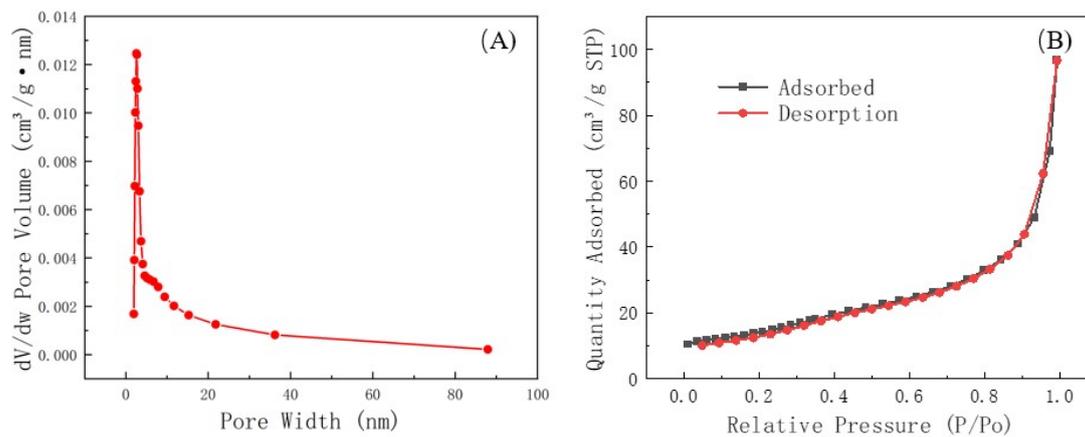


Fig. S3 N_2 adsorption/desorption isotherm (A) and pore size distribution (B) of Ni@CNT

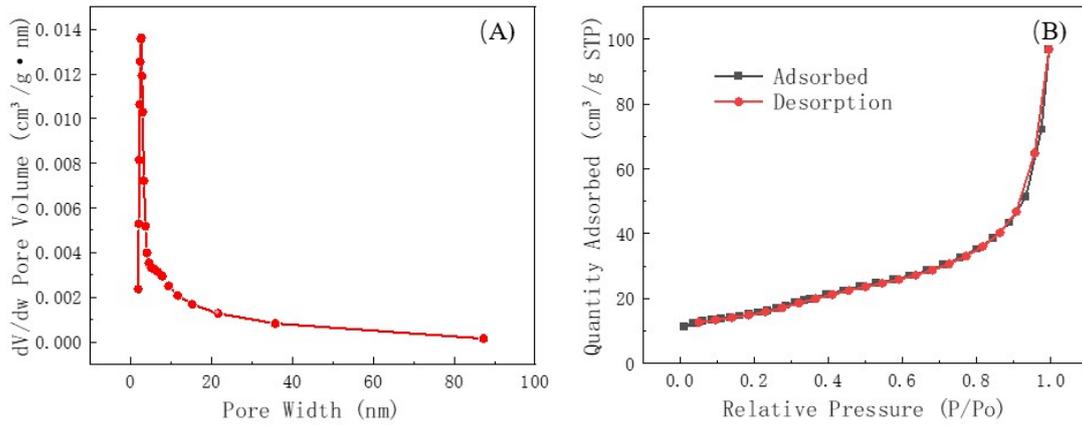


Fig. S4 N₂ adsorption/desorption isotherm (A) and pore size distribution (B) of ZnFe@CNT

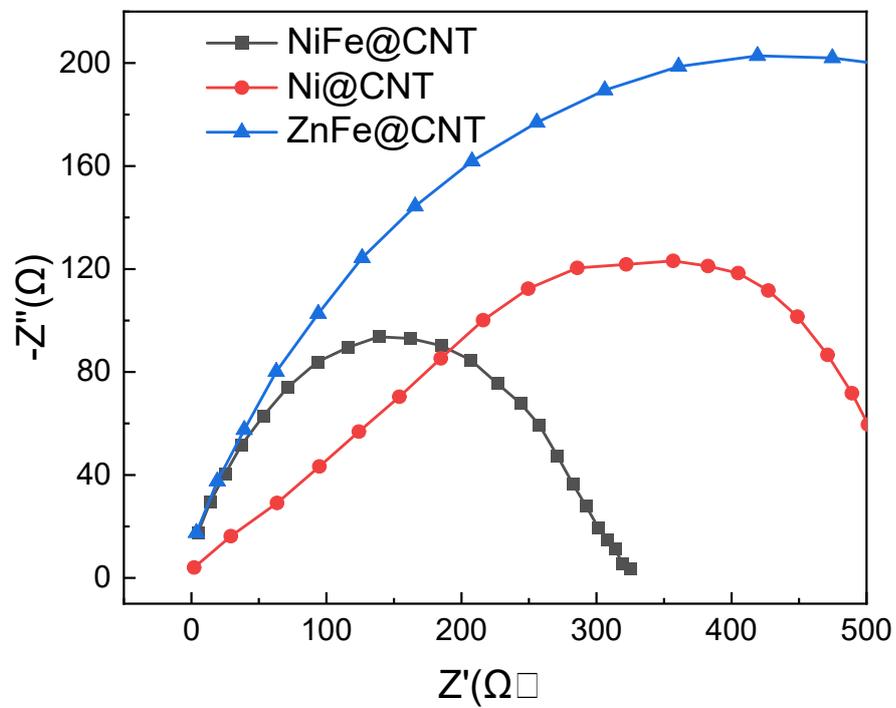


Fig. S5 EIS spectrum of NiFe@CNT, Ni@CNT and ZnFe@CNT in an alkaline environment of the three catalysts in 0.1 M KOH solution.

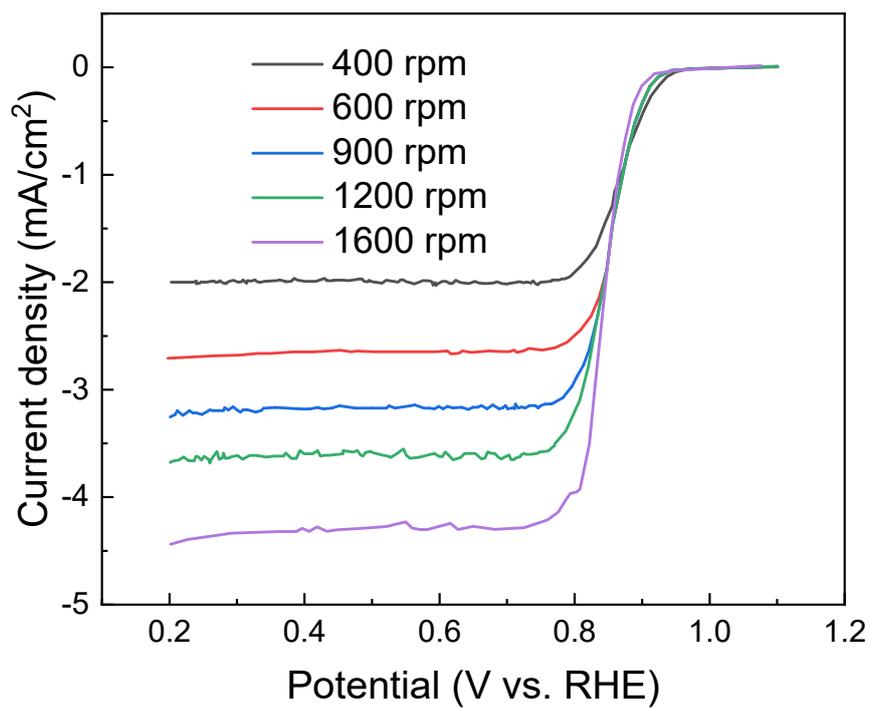


Fig. S6 LSV curves of NiFe@CNT at different rotation speeds

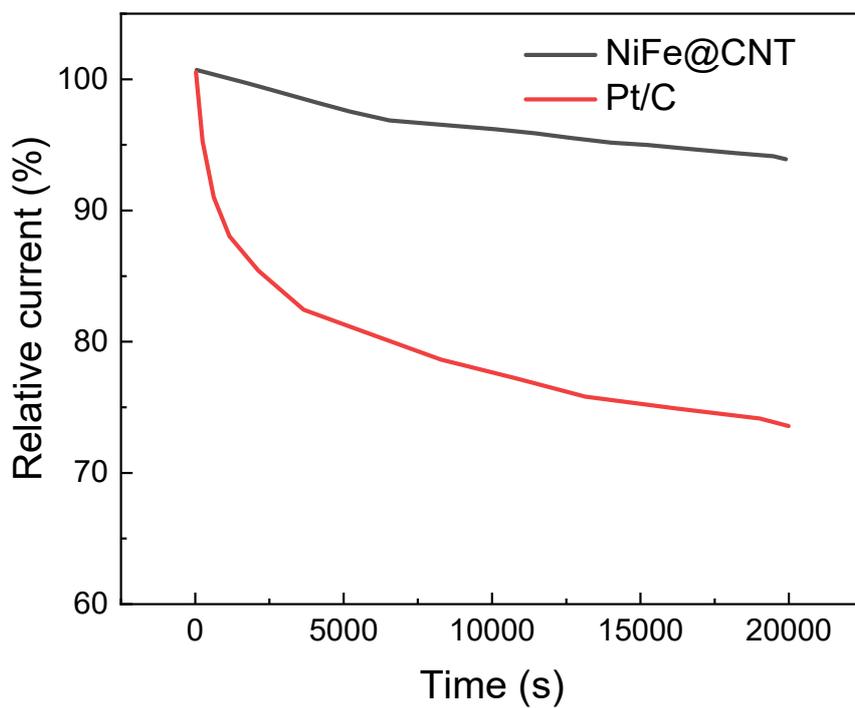


Fig. S7 Constant potential timing (*i-t*) curve of NiFe@CNT and Pt/C