

Supplementary Material

Investigating Electrochemical Behavior of Cobalt Pentacyano(methylaniline)ferrate(II) in Various Aqueous Electrolytes for Supercapacitor Application

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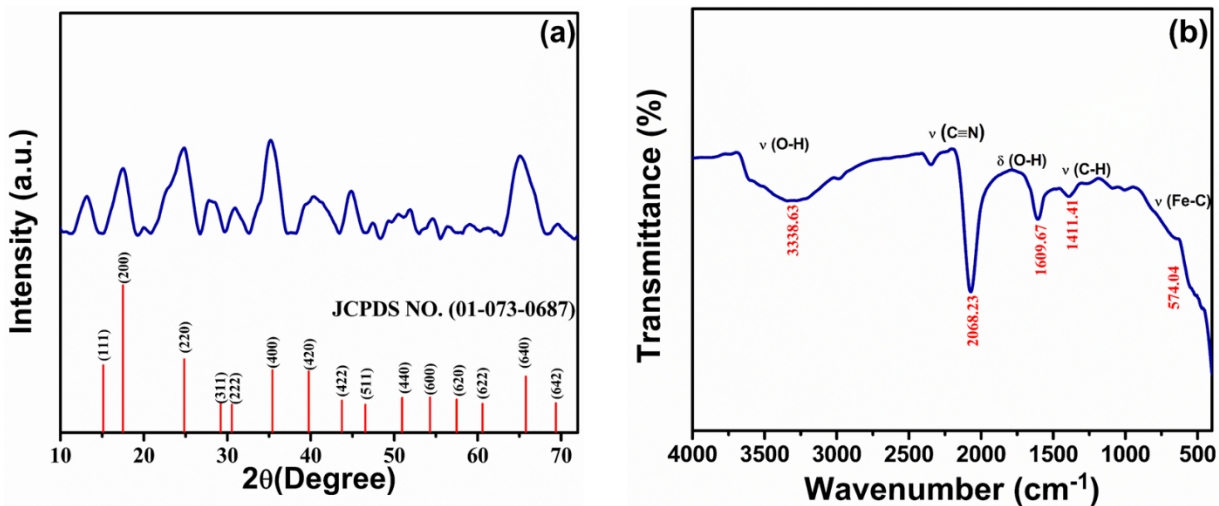


Fig. S1. (a) PXRD pattern and (b) FTIR spectrum of CoPCF.

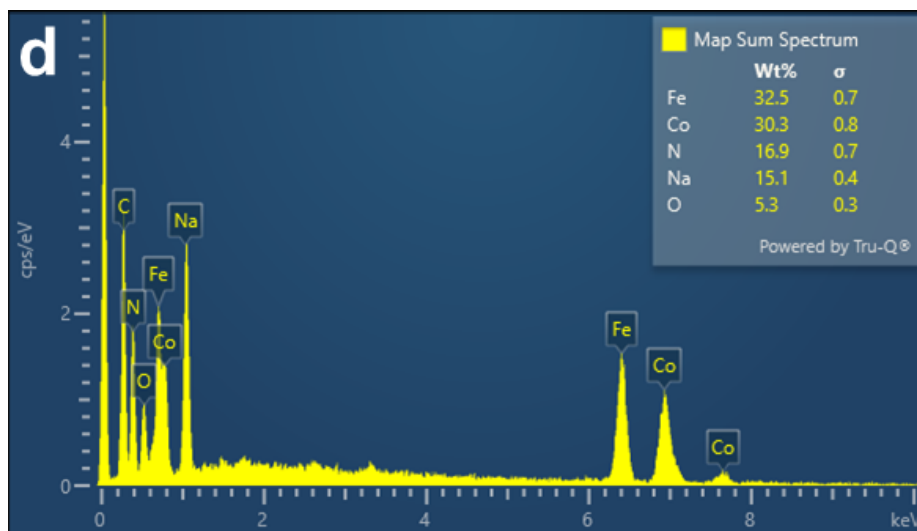


Fig. S2. EDX spectrum of CoPCF.

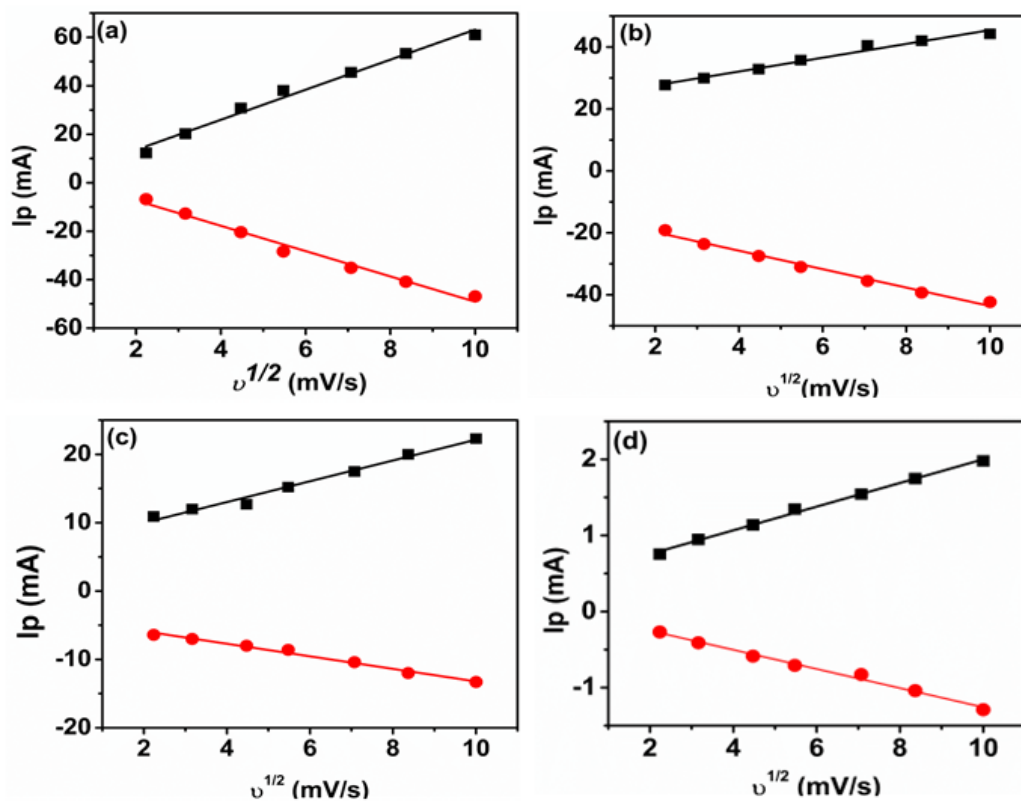


Fig. S3. Relationship between peak current and square root of scan rate in different aqueous electrolytes (a) 3M KOH (b) 1M NaOH (c) 1M LiOH (d) 1M KNO₃

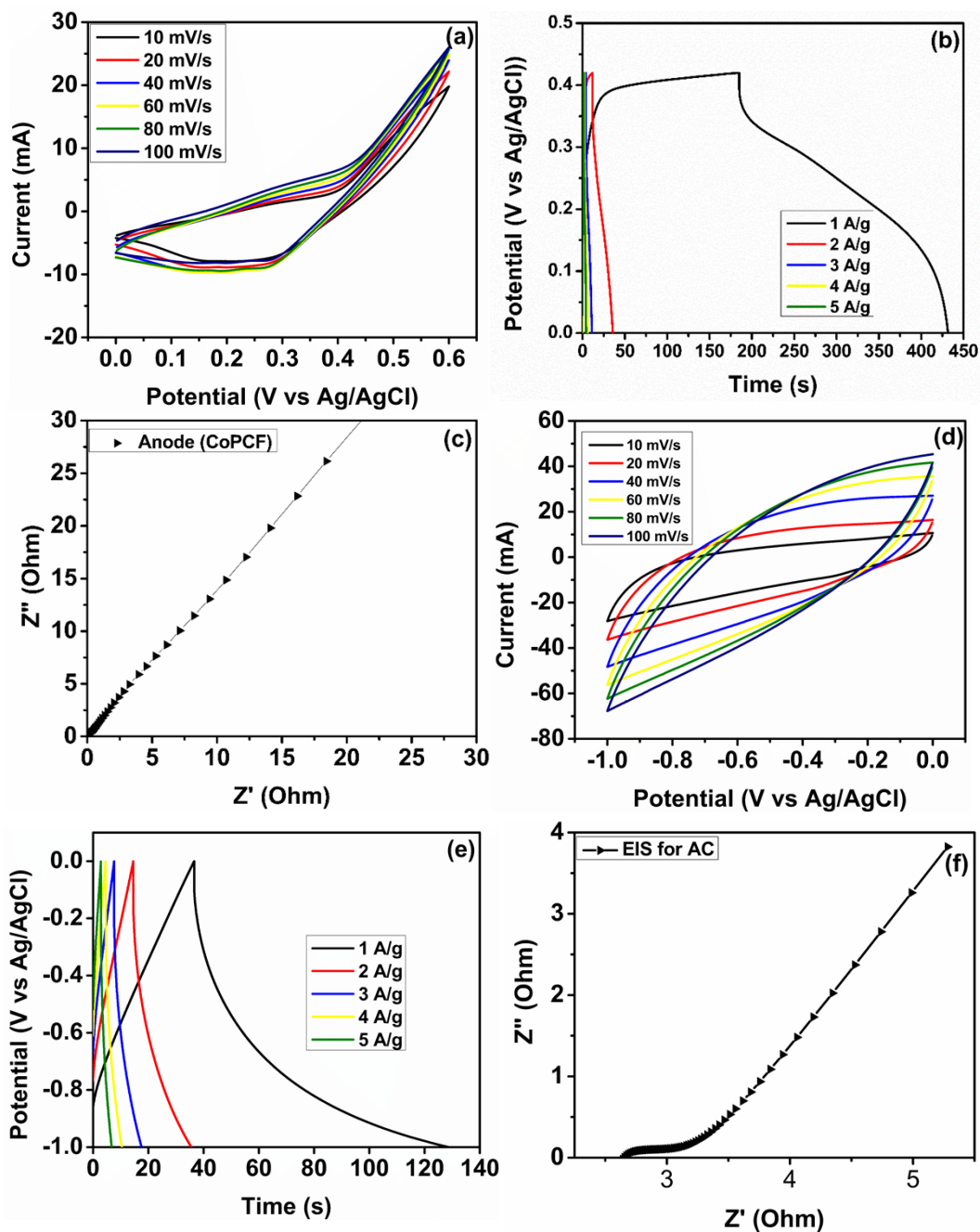


Fig. S4: (a) CV profile at different scan rates (b) GCD profile at different current densities and (c) EIS analysis of CoPCF, (d) CV profile at different scan rates (e) GCD profile at different current densities and (f) EIS analysis of AC device.

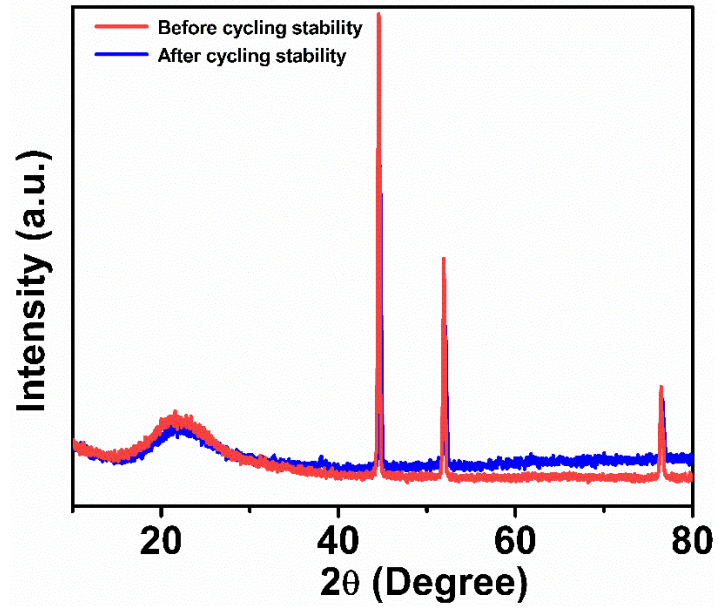


Fig. S5. PXR analysis before and after cycling.

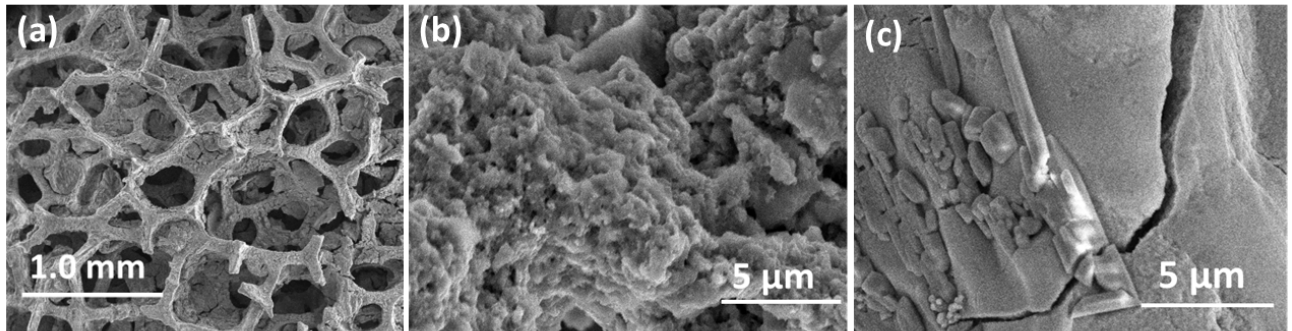


Fig. S6. SEM analysis before and after cycling (a) PABs deposited in NiF (b) SEM image before cycling (c) SEM images after cycling.