

1 Catalytic and filterable polyester-filter membrane electrode with a high performance

2 Carbon foam-Fe-Co catalyst improved electricity generation and waste-water

3 treatment in MBR-MFC

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6 **Supplementary material**

7 **For the comparison of different catalysts in CV curves**

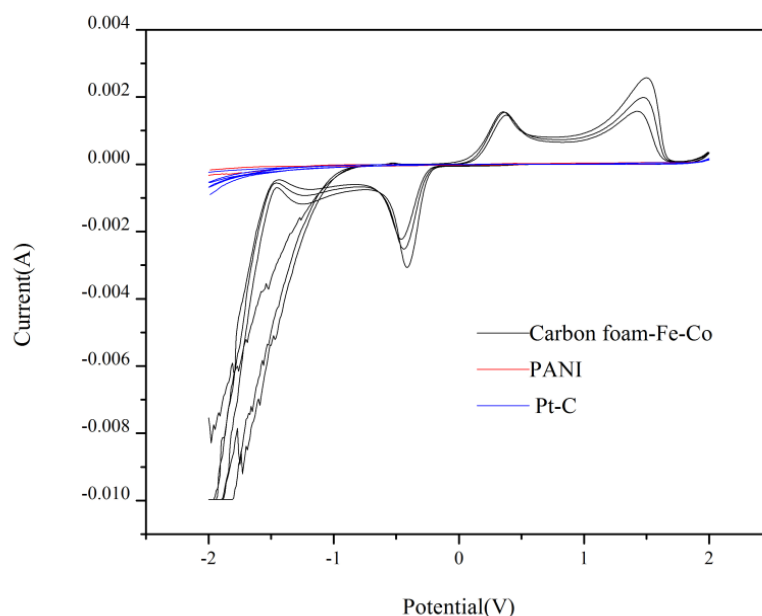
8 It can be seen that the electrochemical activity of the Carbon foam-Fe-Co is much

9 higher than the PANI and Pt-C loaded on glassy carbon electrode from Fig. S1. To

10 evaluate the stability of the Carbon foam-Fe-Co, the CV was scanned for three circles.

11 As shown in Fig. S1, all the peaks become a little weak. Therefore, the Carbon foam-

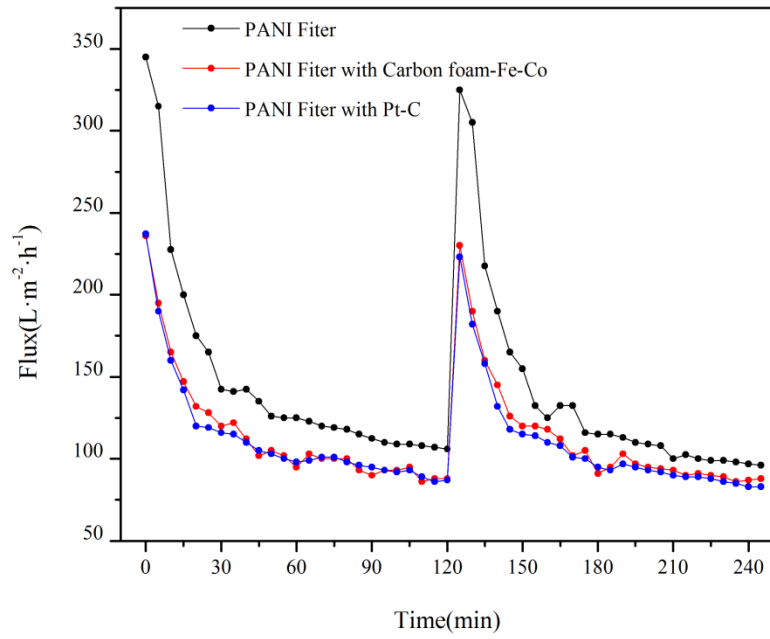
12 Fe-Co catalyst is stable.



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14 Fig.S1 The cyclic voltammograms comparison of different catalysts on glassy carbon

15 electrode in 0.1 M H₂SO₄ sparged with O₂.



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17 Fig.S2 The comparison of flux of the different cathode membrane electrodes in

18 filtrating Yeast suspension