Supplementary Information

High-performance catalytic oxygen evolution with nanocellulose-derived biocarbon and Fe/zeolite/carbon nanotubes

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BET Surface Area Analysis (Supporting Data for Section 2.10)

The specific surface area measurements for the Fe/Zeolite@CCNC and Fe/Zeolite@CCNF samples were performed using a HORIBA SA-9600 series BET multipoint surface area analyzer. Samples were degassed at 300°C for 240 minutes before analysis. Surface area values were calculated at nitrogen relative pressures of 4.9%, 14.5% and 28.5%.

The specific surface area values for the two samples are listed in Table S1.

Table S1. BET Specific Surface Area of Fe/Zeolite@CCNC and Fe/Zeolite@CCNF samples

Sample Name	BET Surface Area (m^2/g)
Fe/Zeolite@CCNC (**1**)	301.47
Fe/Zeolite@CCNF (**2**)	120.39

The data for BET specific surface area analysis of both samples, Fe/Zeolite@CCNC and Fe/Zeolite@CCNF, are provided below.

(a) **(b)**

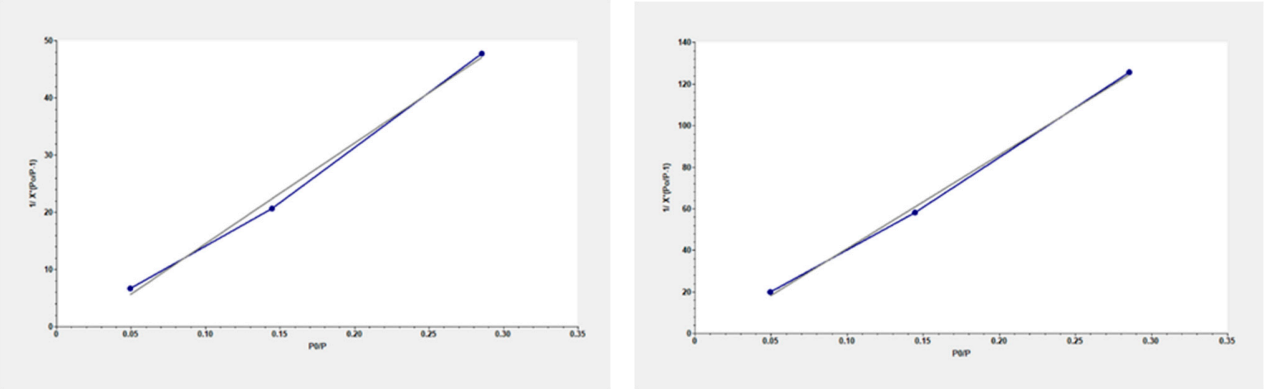


Figure S1. BET-Specific surface area for the (a) Fe/Zeolite@C_{CNC} (**1**) and (b) Fe/Zeolite@C_{CNF} (**2**).

Electrochemical Scan Rate Plots for 1 - 4 (Supporting Data for Section 2.7).

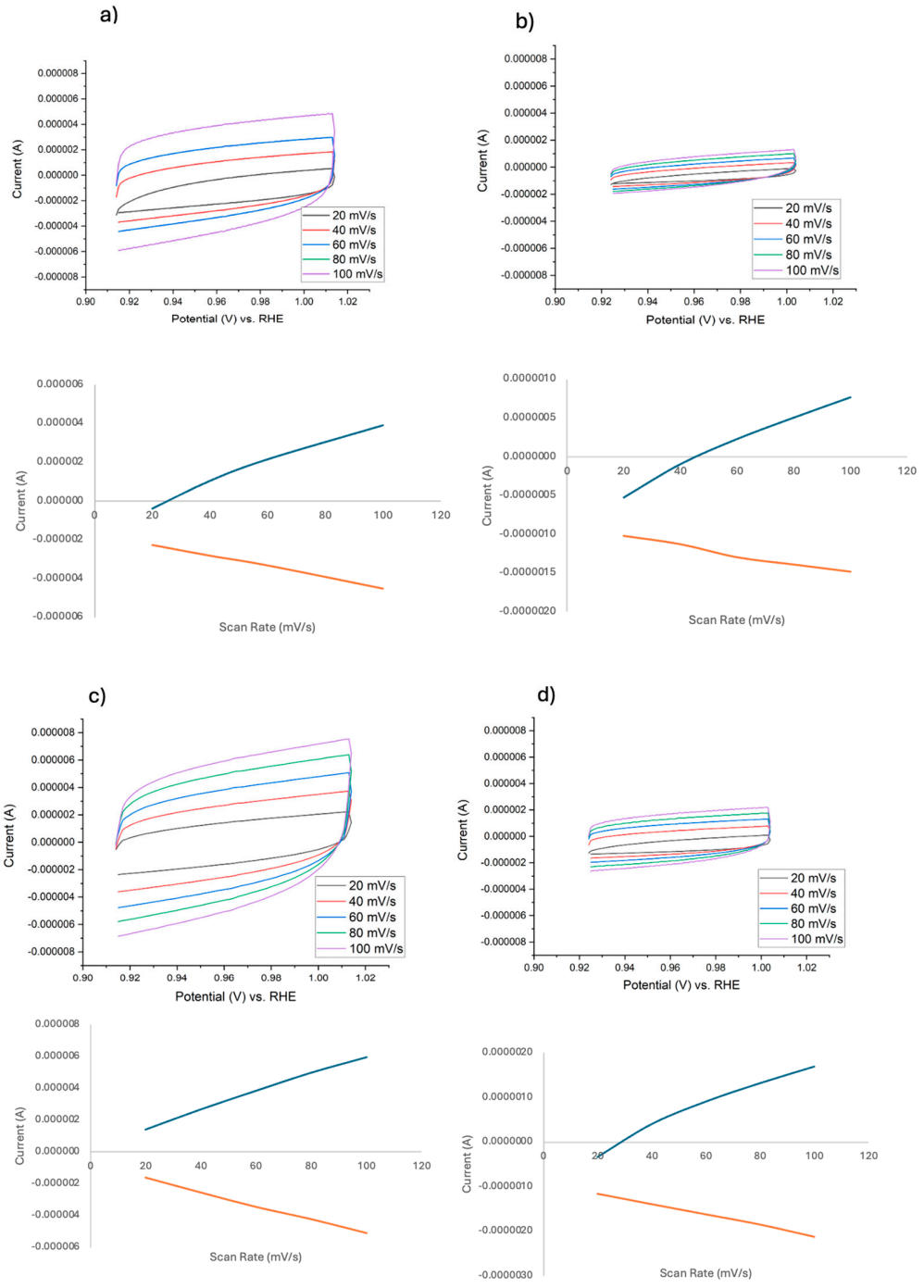


Figure S2. Scan rate plots for (a) Fe/Zeolite@C_{CNC}**(1)**, (b) Fe/Zeolite@C_{CNF}**(2)**, (c) Fe/Zeolite/CNT@C_{CNC} **(3)**, and (d) Fe/Zeolite/CNT@C_{CNF} **(4).**