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Supplementary material to

Functionalization of FeCoNiCu medium entropy alloy via nitridation and anodic oxidation for enhanced oxygen evolution and glycerol oxidation

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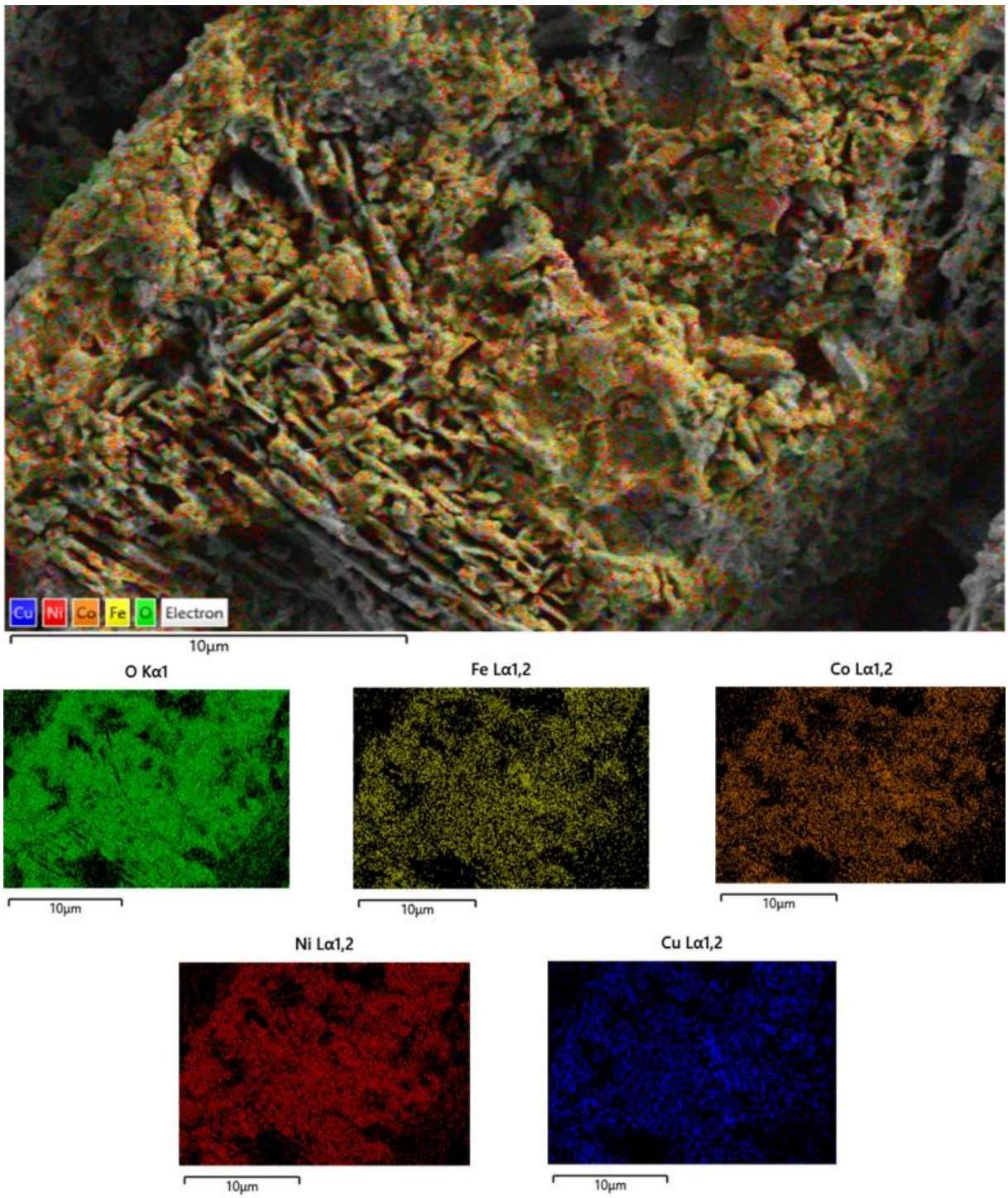

Figure S1. *SEM-EDS elemental mapping showing the distribution of O, Ni, Co, Fe, and Cu*

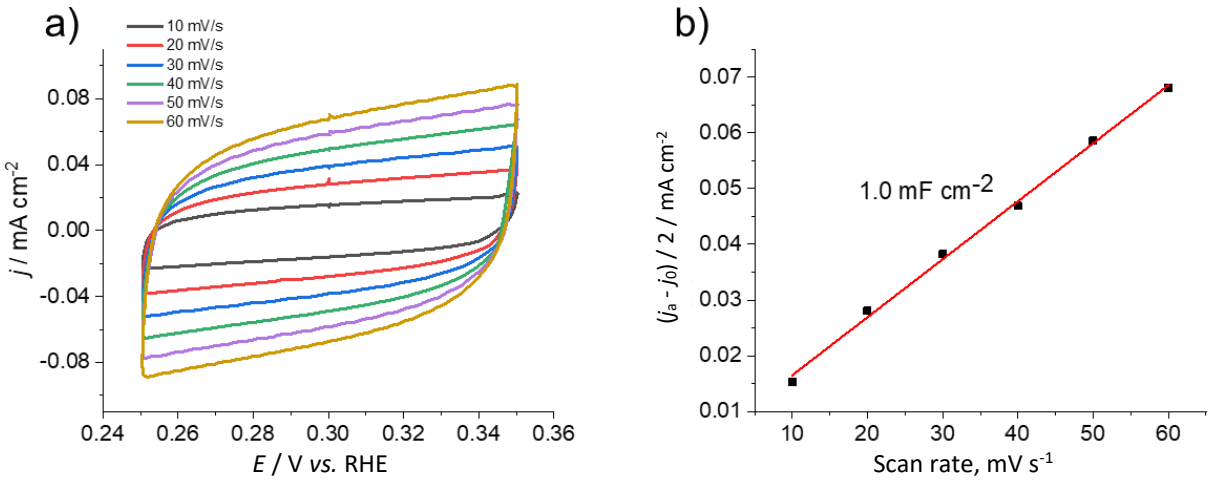

Figure S2. *Cyclic voltammograms recorded at various scan rates in Ar-saturated 1 M KOH electrolyte for extracting the Cdl value for the NT-AO-treated FeCoNiCu catalyst*

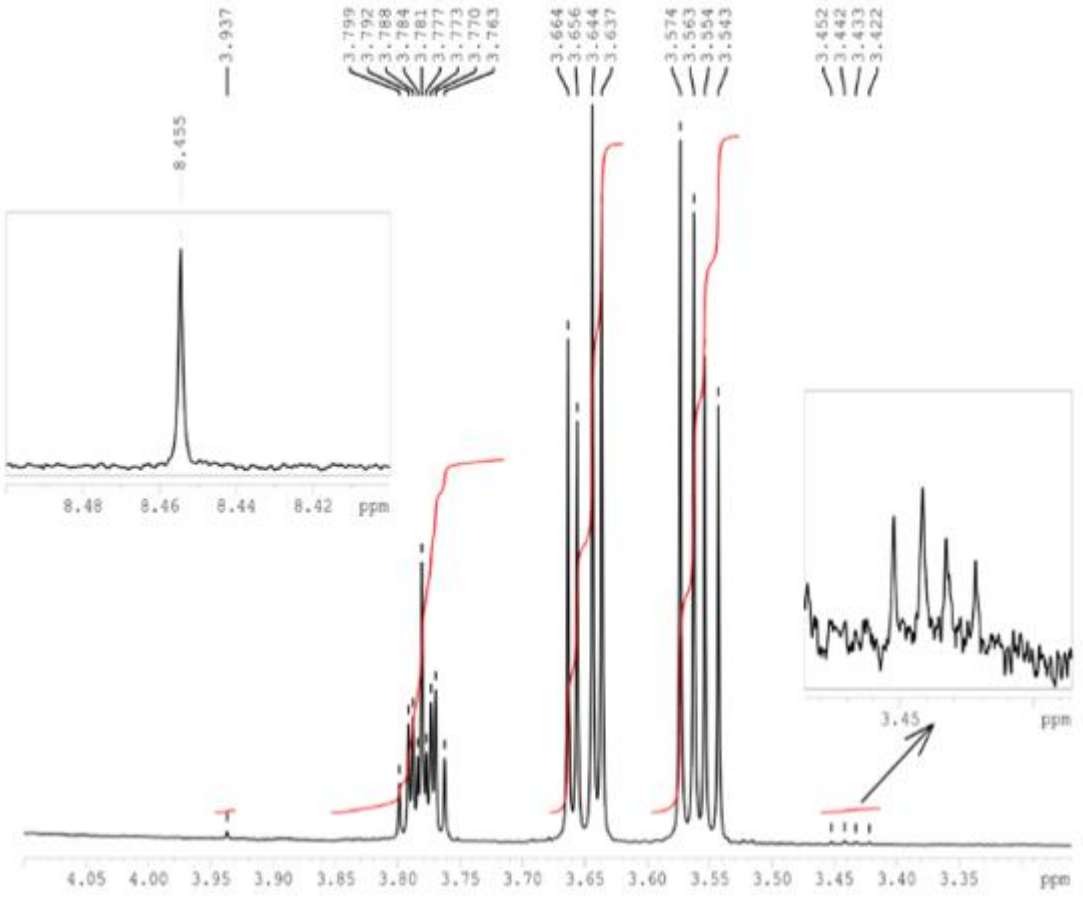

Figure S3*. NMR spectra of the reaction products from the electrochemical oxidation of glycerol (after 5 h at 1.49 V vs RHE)*

Table S1. *Comparison of the glycerol oxidation performance of different catalysts*

Catalyst	Electrolyte	GOR potential @10 mA $cm^{-2}_{geo,}$ V	C_{dl} / mF cm^{-2}	Ref.
FeCoNiCu	1 M KOH 0.1 M glycerol	1.41	1.0	This work
HEA-CoNiCuMnMo	1 M KOH with 0.1 M glycerol	1.23	26.6	[1]
$CoMoO_4$	1 M KOH with 0.1 M glycerol	1.105	1.542	[2]
NiOOH/Ni_3S_2/NF	1 M KOH with 0.1 glycerol	1.227	10.3	[3]
Cu-NiCo/NF	1 M KOH with 0.1 M glycerol	1.23	16.1	[4]

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