

Electronic Supplementary Information

Titanium Nitride-supported Cu-Ni Bifunctional Electrocatalysts for CO₂ Reduction and the Oxygen Evolution Reaction

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Table S1. Charge transfer resistance (R_{ct}) obtained from electrochemical impedance spectroscopy data fitted to a Randles circuit.

Catalyst	$R_{ct} (\Omega)$
Carbon	685
TiN	9617
Cu-Ni on carbon	840
Cu-Ni on TiN/C	2654

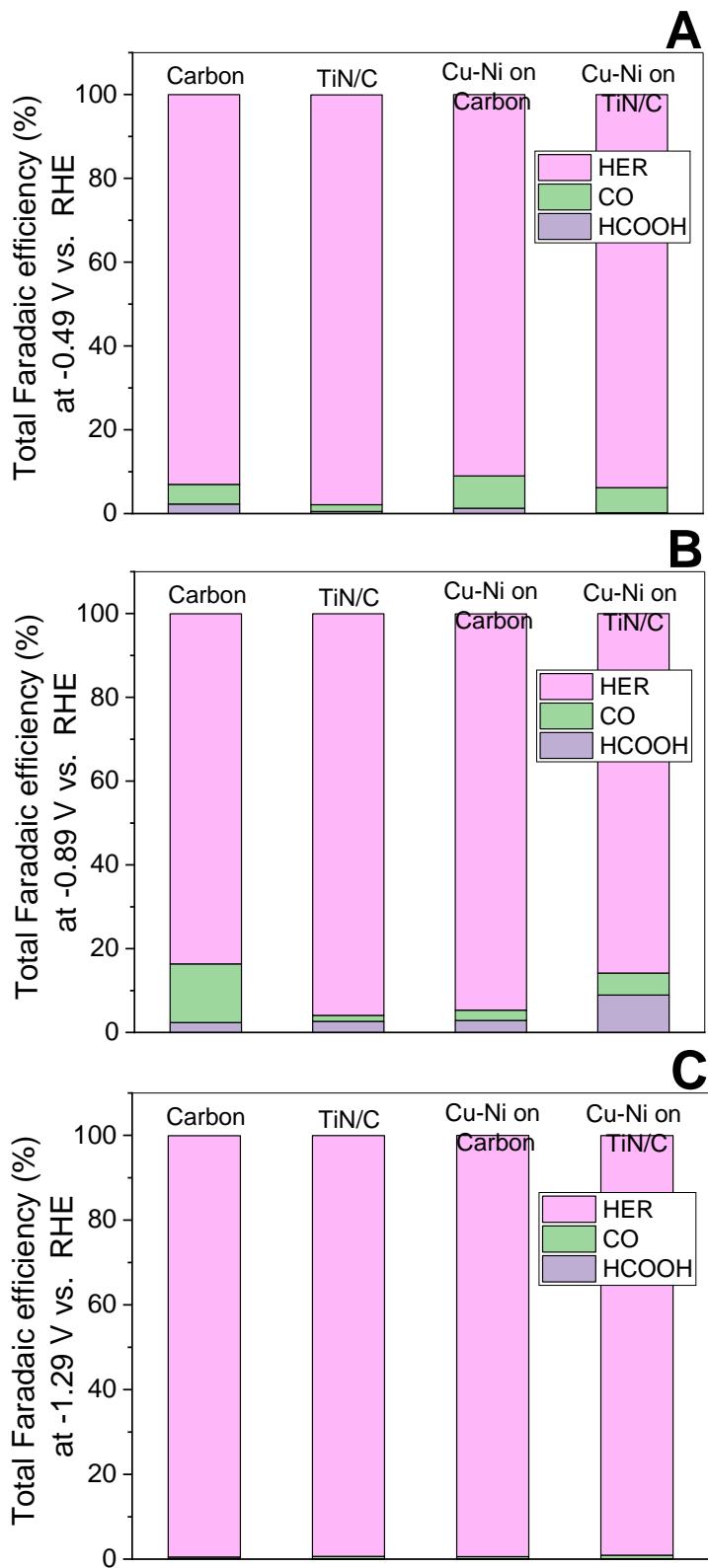


Figure S1. Total Faradaic efficiencies of all catalysts at -0.49 V (A), -0.89 V (B), and -1.29 V (C).

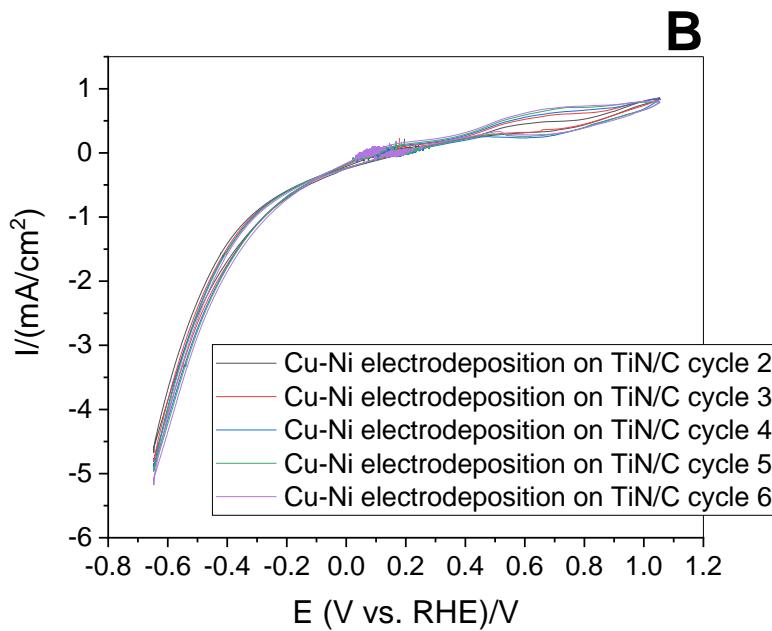
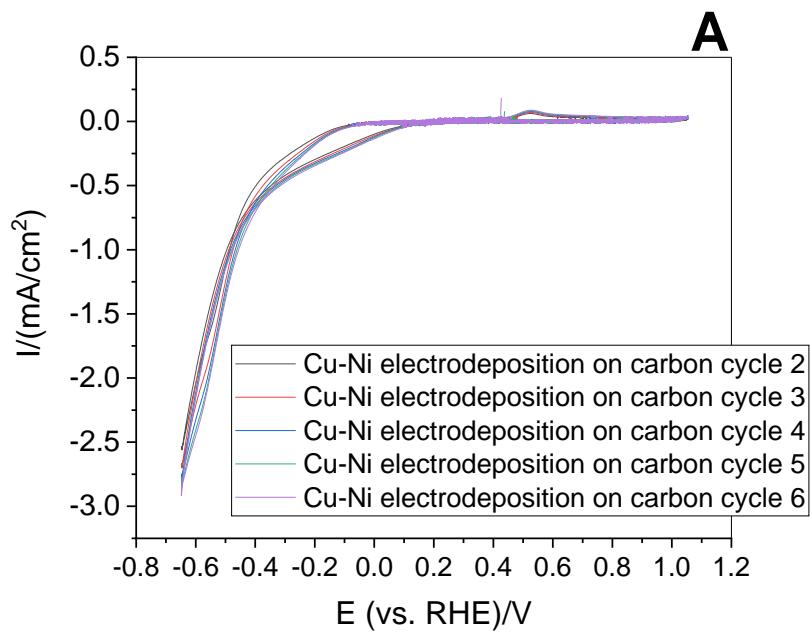


Figure S2. Cyclic voltammograms of Cu-Ni electrodeposition on carbon and TiN/C cycles 2-6.

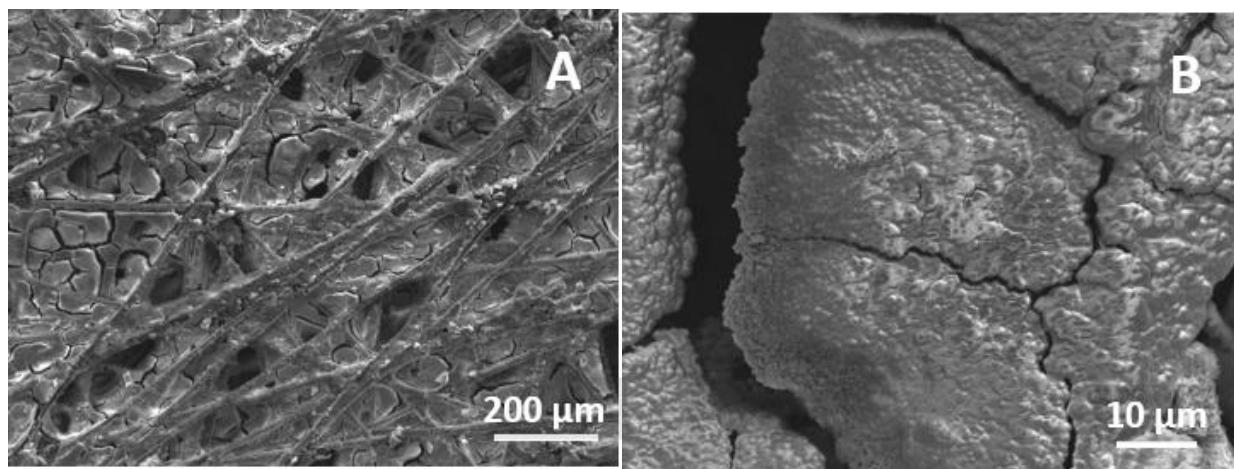


Figure S3. SEM images of Cu-Ni on TiN/C after 24 hours.

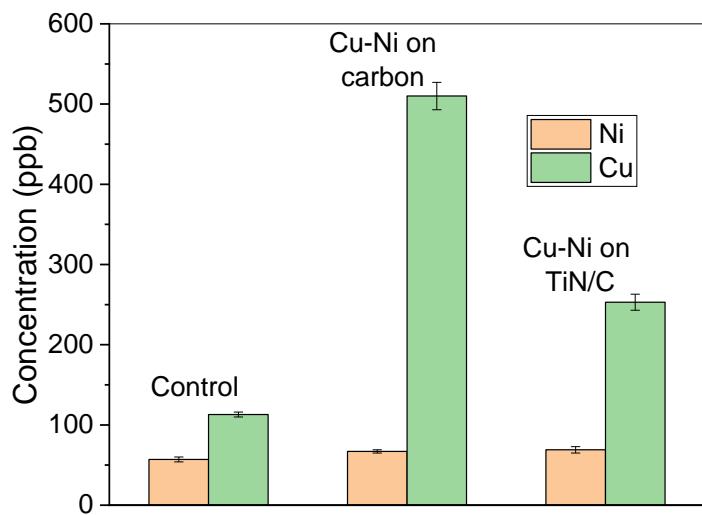


Figure S4. ICP-MS analyses of dissolved metals in electrolyte after electrochemical reaction.