

# Electronic Supplementary Material

## Self-supported copper-based gas diffusion electrodes improve the local CO<sub>2</sub> concentration for efficient electrochemical CO<sub>2</sub> reduction

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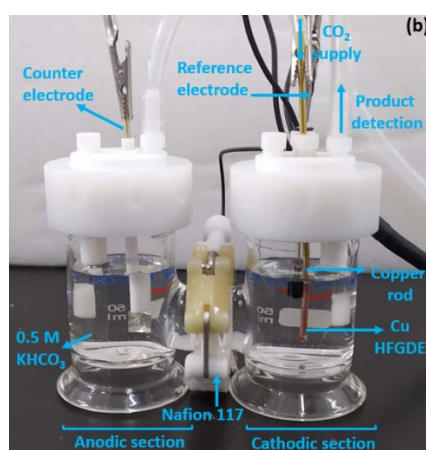
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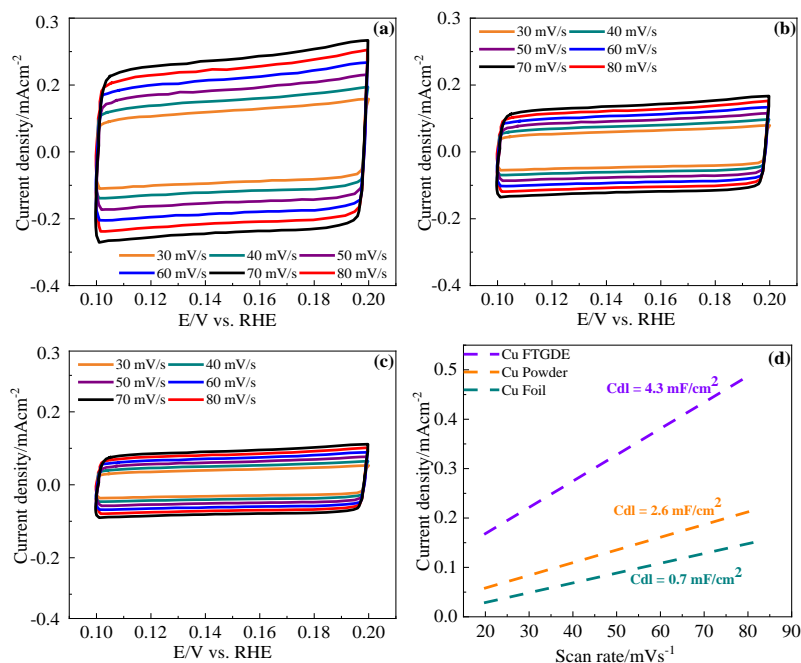
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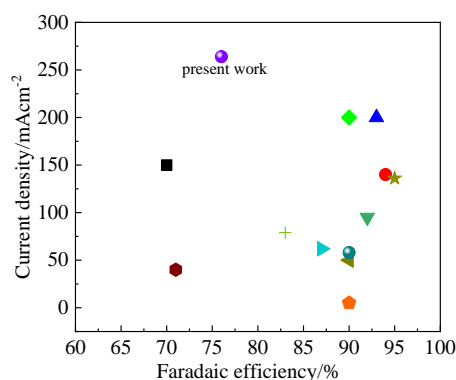
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**Fig. S1.** Arrangement of the electrochemical cell



**Fig. S2.** CV curves of (a) Cu FTGDE, (b) Cu powder, and (c) Cu foil and (d) current density vs. scan rate



**Fig. S3.** Comparison of the present work with the previously published studies producing formate from eCO<sub>2</sub>R

[1-13]

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