

Supporting Information:

Migration Effects cause Linear Waveform in Cyclic Voltammetry of Metal Anode Electrodeposition/Dissolution without Supporting Electrolyte: Calculations and Experiments on a Model Case

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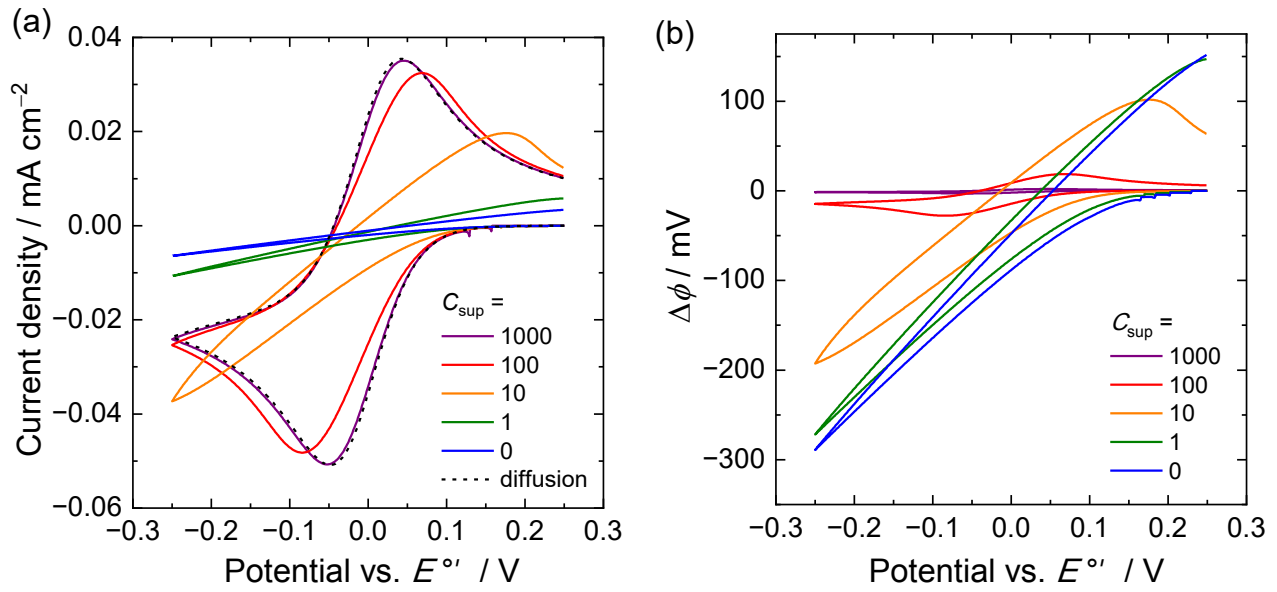


Figure S1 (a) Simulated results of CVs and (b) $\Delta\phi$ change in 0.1 mM FcPF₆ at various C_{sup} of LiPF₆ as a supporting electrolyte. The broken line in (a) is the CV on the purely diffusion model. Simulation parameters are: $k_0 = 1.7 \times 10^{-4} \text{ m s}^{-1}$, $c_A = 0.1 \text{ mM}$, $c_B = 0 \text{ mM}$, $D_{\text{Fc}^+} = 4.2 \times 10^{-10} \text{ m}^2 \text{ s}^{-1}$, $D_{\text{Fc}^-} = 3.6 \times 10^{-10} \text{ m}^2 \text{ s}^{-1}$, $D_{\text{Li}^+} = 2.166 \times 10^{-10} \text{ m}^2 \text{ s}^{-1}$,¹¹ $D_{\text{PF}_6^-} = 4.681 \times 10^{-10} \text{ m}^2 \text{ s}^{-1}$,¹¹ $r_e = 1.5 \text{ mm}$, $T = 303.15 \text{ K}$, and $\epsilon_s = 63.72$.¹² Other ones are identical with those in Fig. 1.