One-step Formation of Ultra-thin Chemically-Functionalized Redox-
Active Langmuir-Schaefer Nafion Films

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Electronic Supporting Information (ESI)

S1. CVs of a 20-layer Nafion-FA\(^+\) film in 0.1 M NaCl supporting electrolyte, scan rate 50 mV s\(^{-1}\) at the beginning (solid line) and after 50 cycles (dashed line).
S2. CVs of a 20-layer Nafion-Ru(bpy)$_3^{2+}$ film in 0.1 M NaCl supporting electrolyte, scan rate 50 mV s$^{-1}$ at the beginning (solid line) and after 50 cycles (dashed line).
**S3.** CVs of a 20-layer Nafion-Ru[(NH₃)₆]³⁺ film in 0.1 M NaCl supporting electrolyte, scan rate 100 mV s⁻¹ at the beginning (solid line) and after 100 cycles (dashed line).