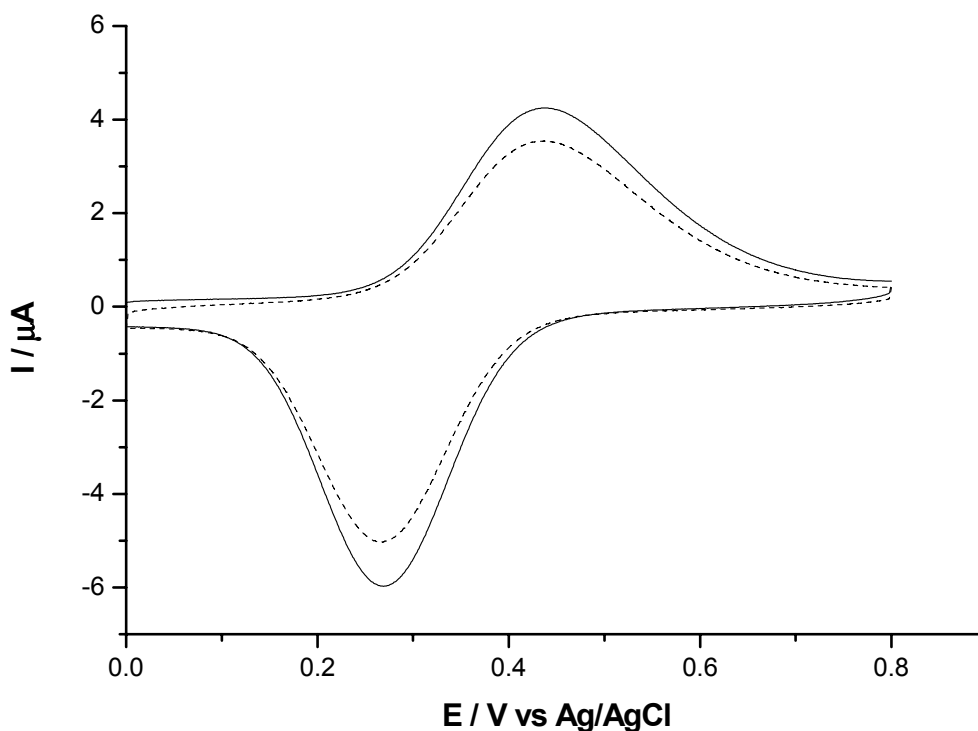


One-step Formation of Ultra-thin Chemically-Functionalized Redox-Active Langmuir-Schaefer Nafion Films

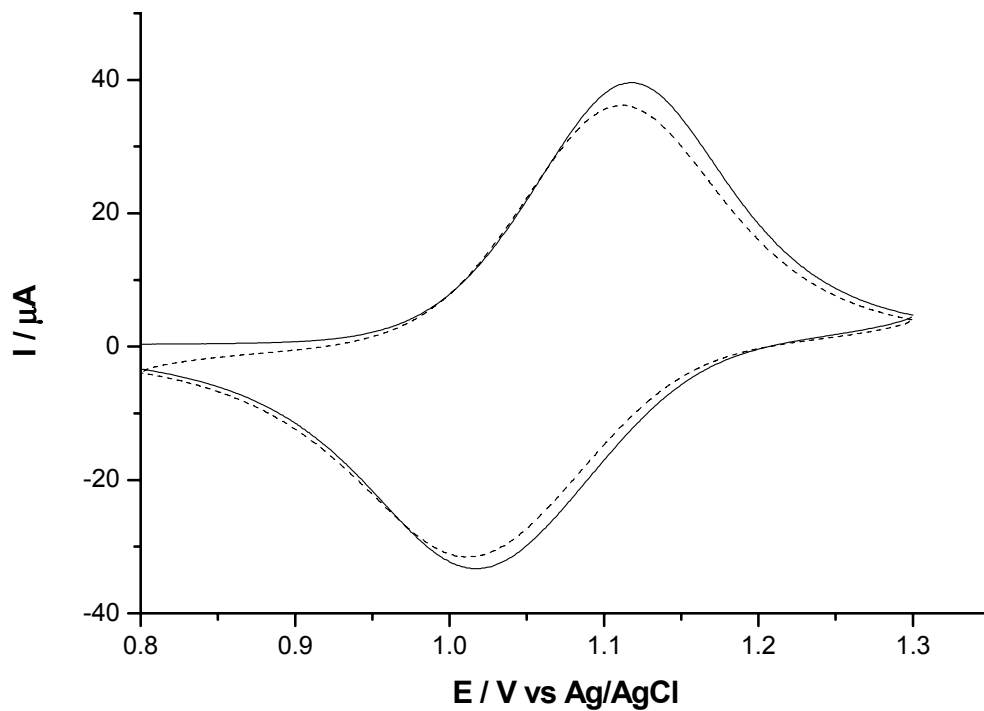
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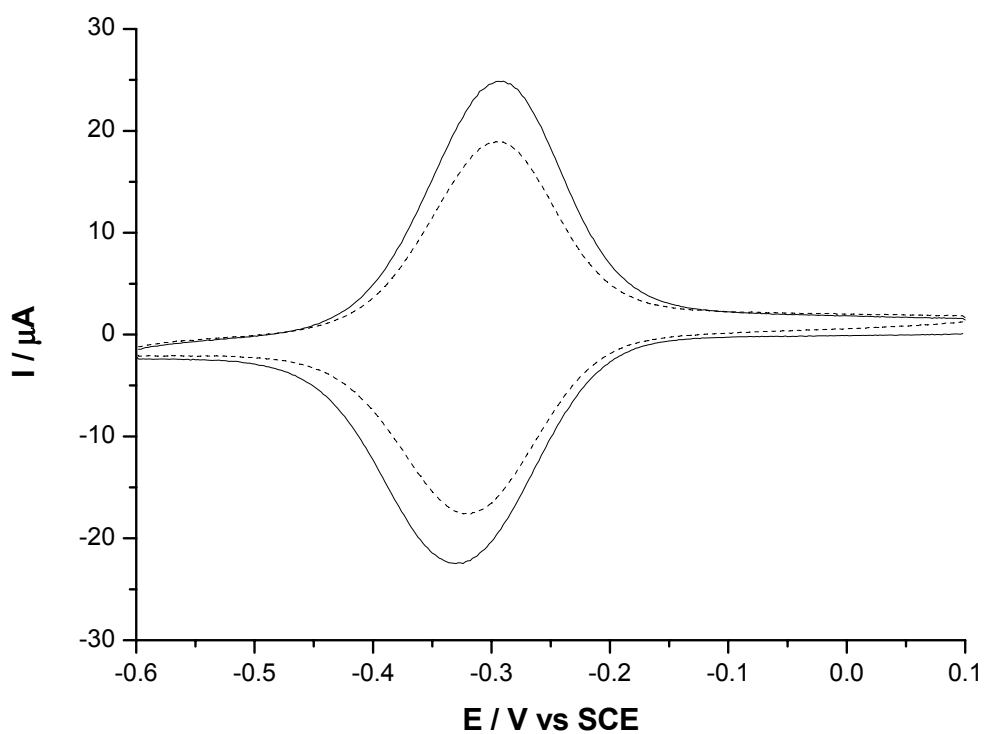
Electronic Supporting Information (ESI)



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)₃²⁺ 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).