

Supporting Information for “Heterobimetallic conducting polymers based on salophen complexes via electrosynthesis”

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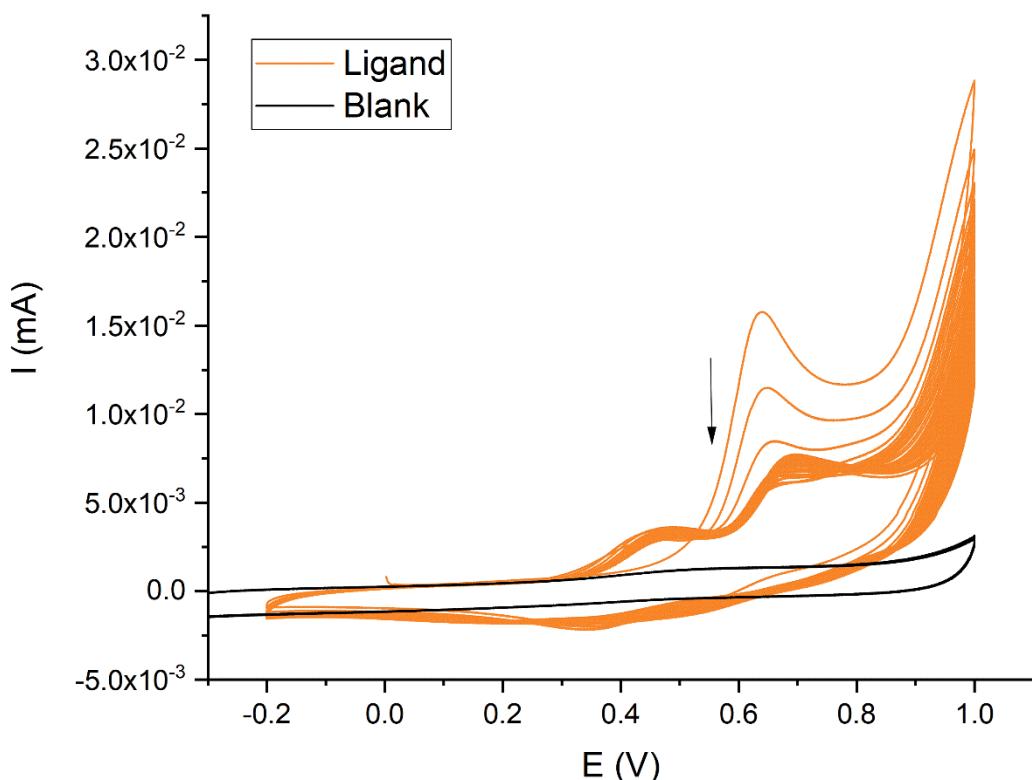


Figure S1. CV of 0.5 mM 3(OMe)salophen recorded at 100 mV/s between -0.2 V and 1.0 V (30 cycles) in 0.1 M TBAHFP/MeCN

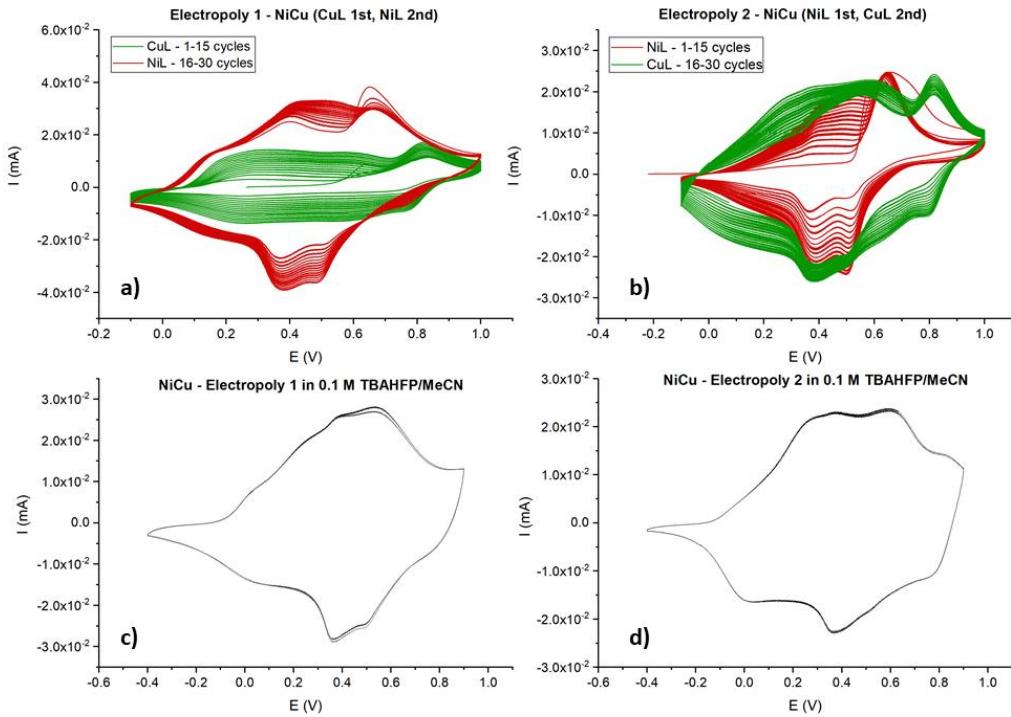


Figure S2 Electropolymerization voltammograms of a bilayer made of poly-CuL (first) and poly-NiL (second) (a) and of poly-NiL (first) and poly-CuL (second) (b). Characterization CVs of the corresponding polyCuL/polyNiL (c) and polyNiL/polyCu (d) in 0.1 M TBAHFP/MeCN recorded at 100 mV/s

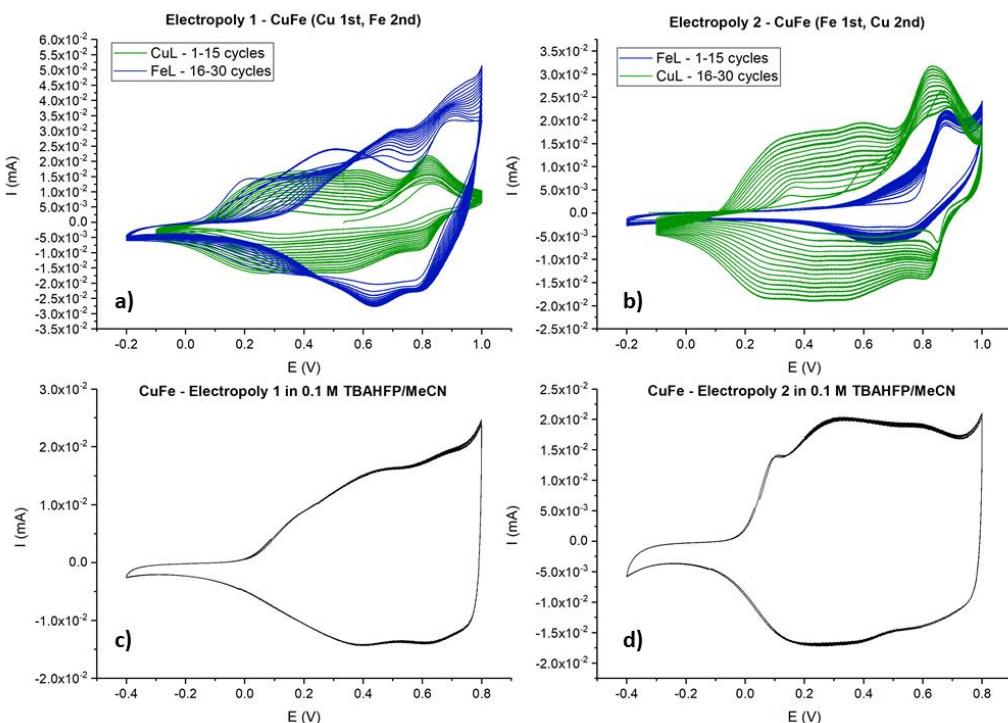


Figure S3. Electropolymerization voltammograms of a bilayer made of poly-CuL (first) and poly-FeL (second) (a) and of poly-FeL (first) and poly-CuL (second) (b). Characterization CVs of the

corresponding polyCuL/polyFeL (c) and polyFeL/polyCu (d) in 0.1 M TBAHFP/MeCN recorded at 100 mV/s

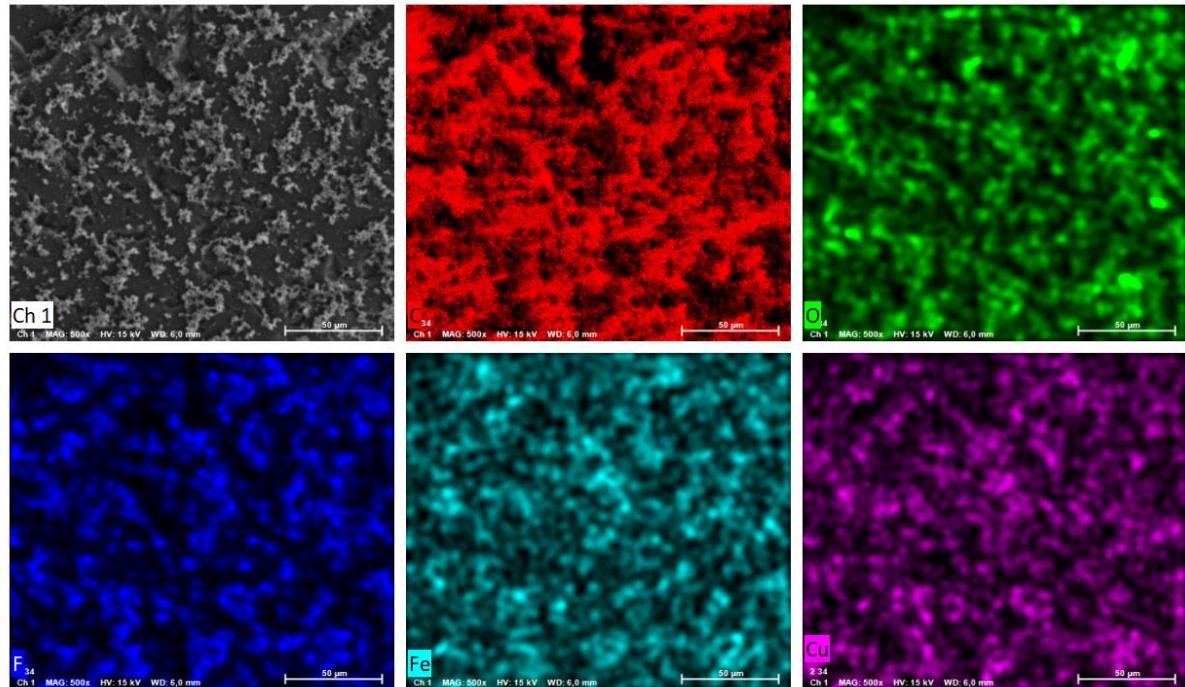


Figure S4a. Elemental mapping by backscattered electrons for poly-CuFe

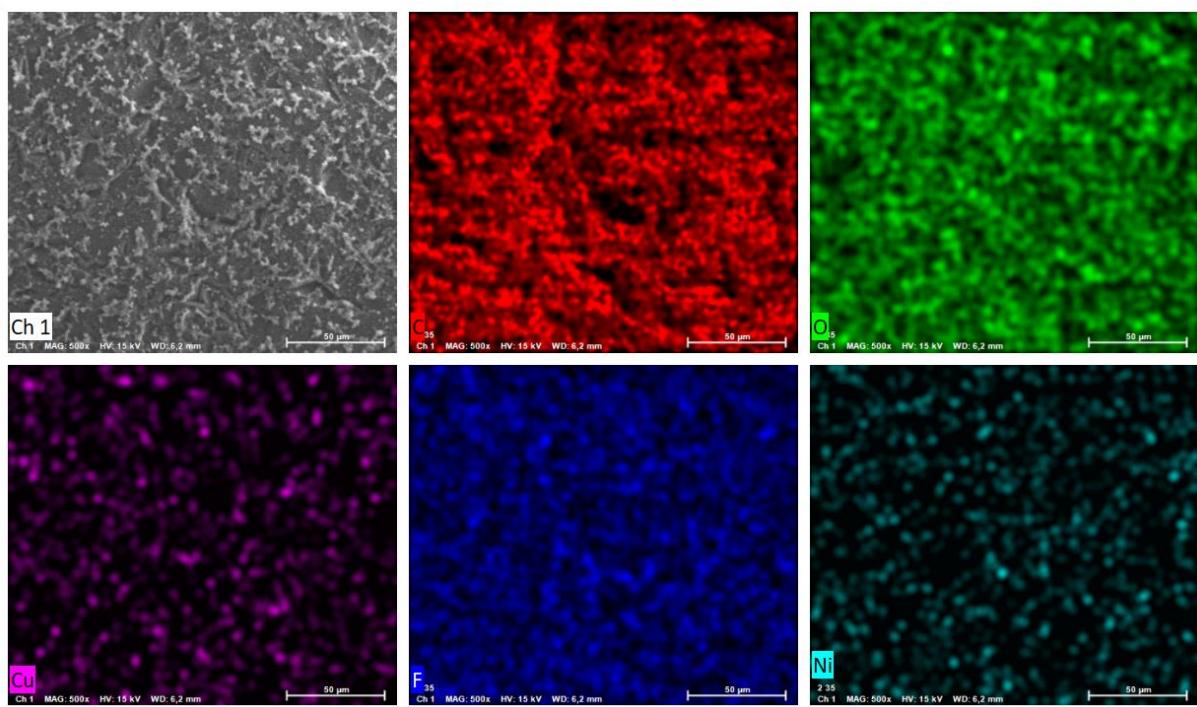


Figure S4b. Elemental mapping by backscattered electrons for poly-NiCu

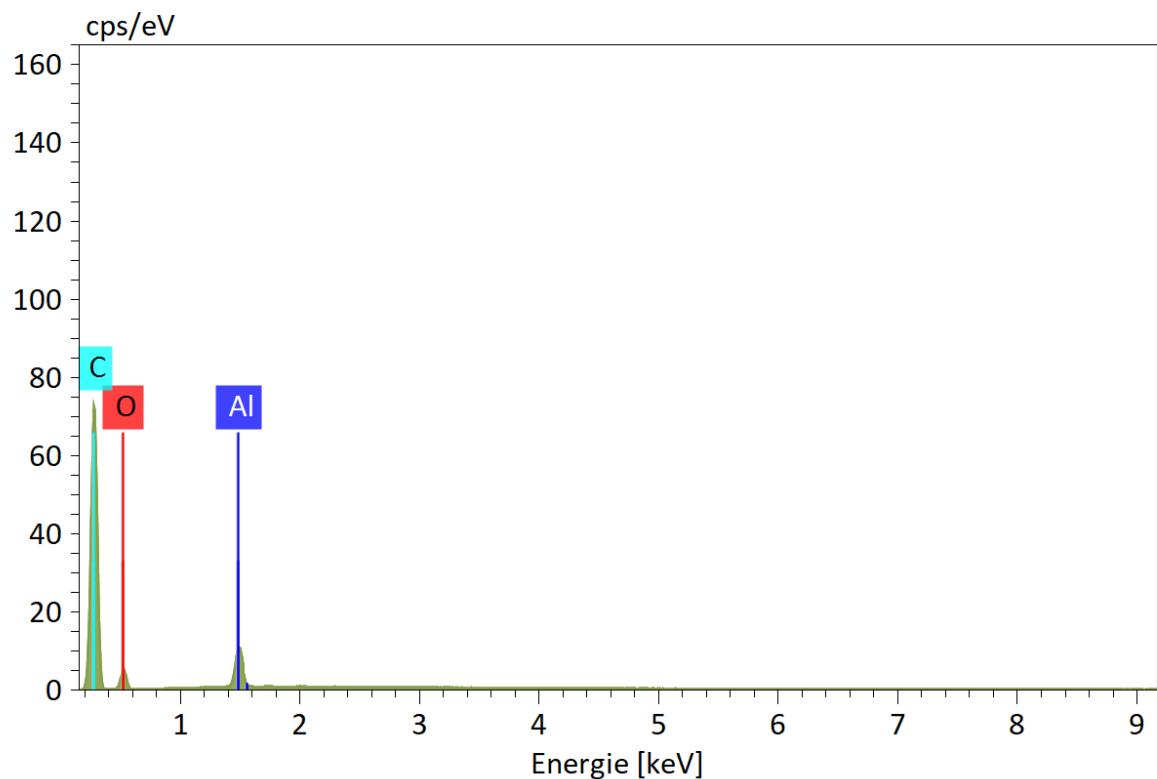


Figure S5a. EDX spectra for unmodified GC electrode

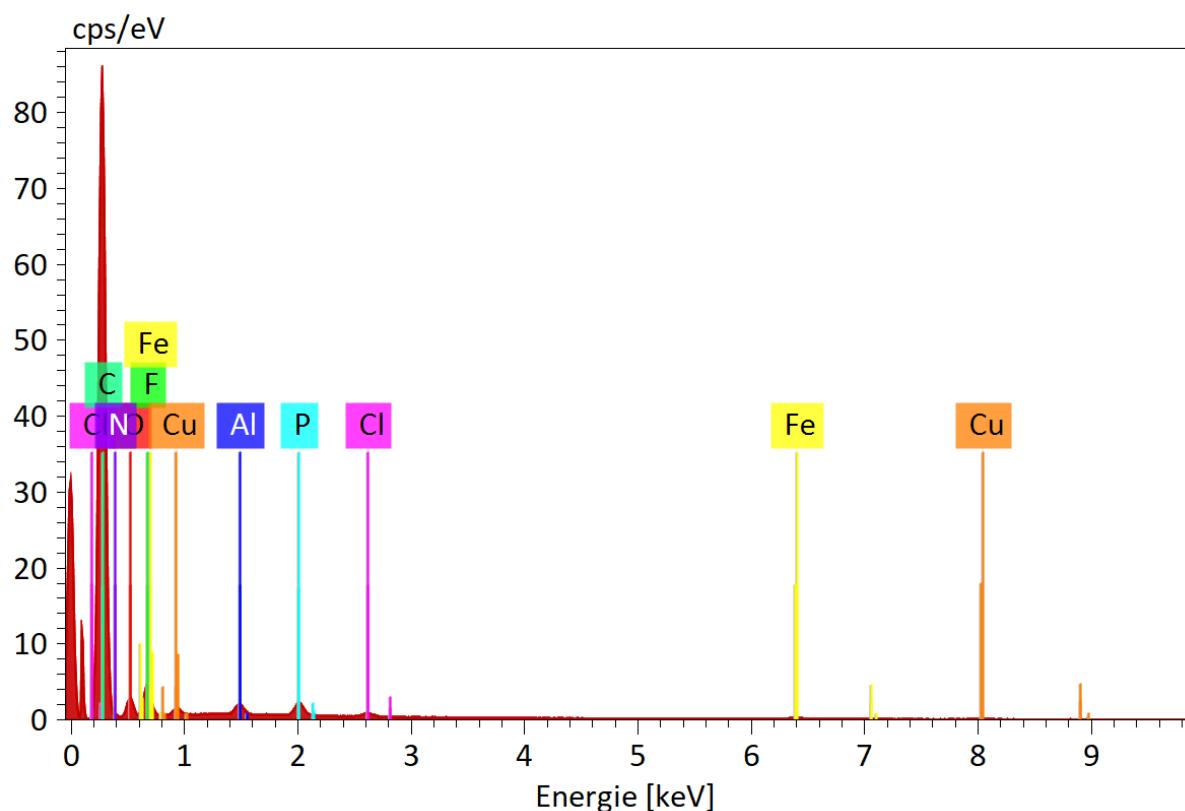


Figure S5b. EDX spectra for poly-CuFe

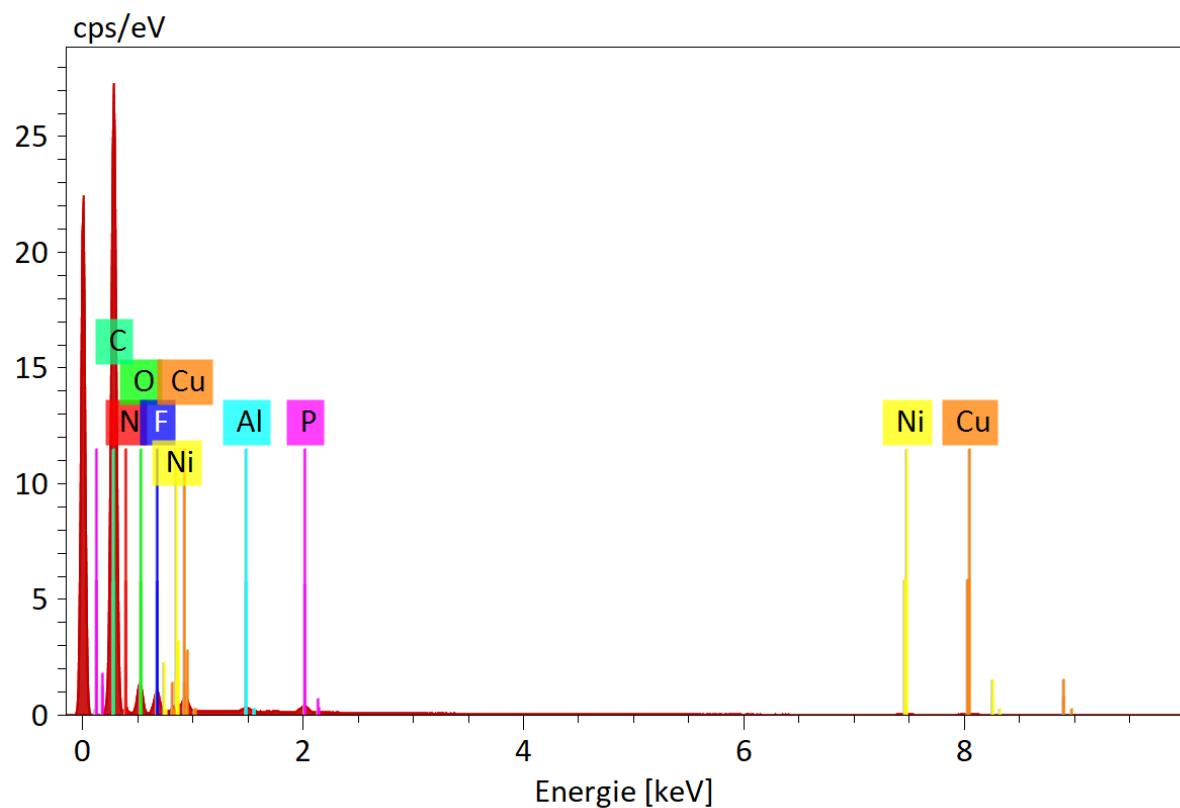


Figure S5c. EDX spectra for poly-NiCu

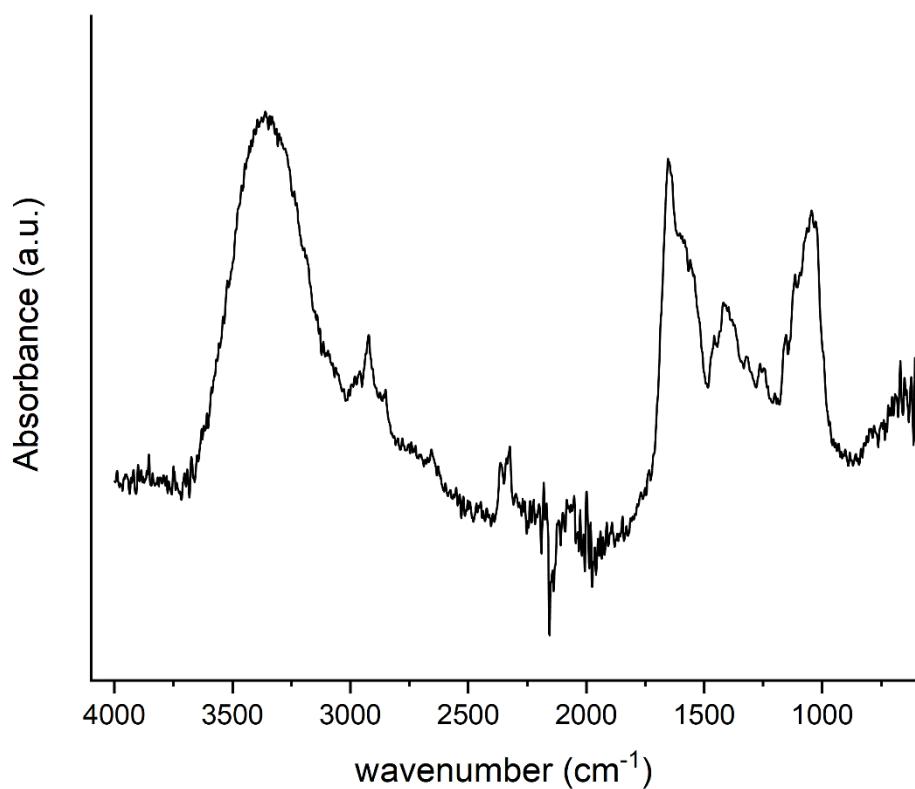


Figure S6. FT-ATR spectrum of unmodified GC electrode

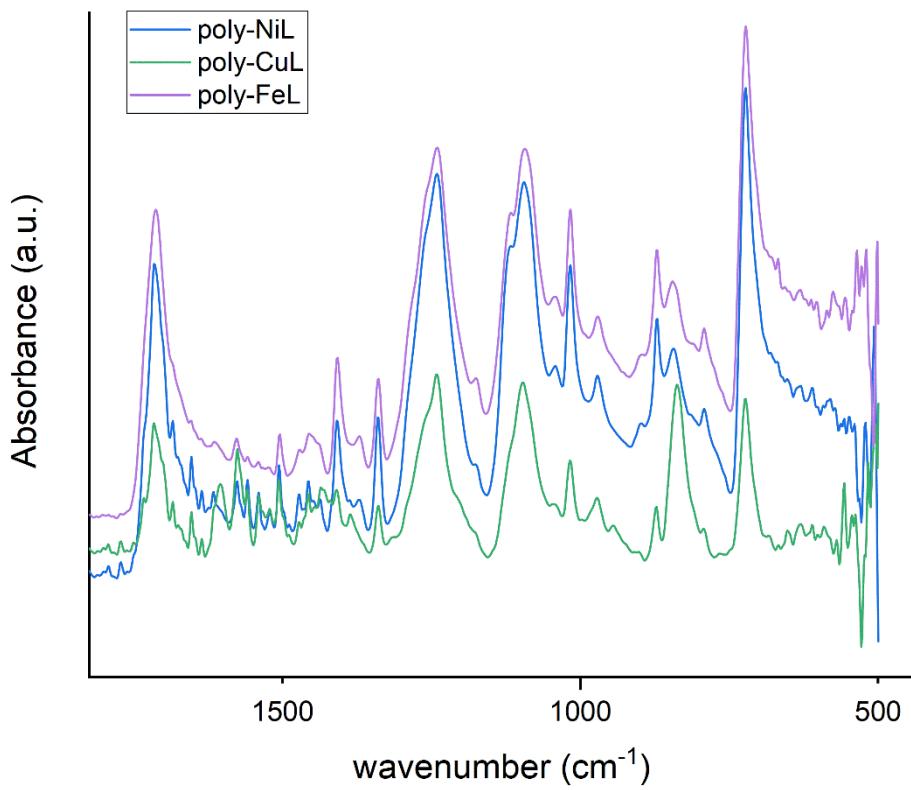


Figure S7. FT-ATR spectra of films formed by electropolymerization of single complexes

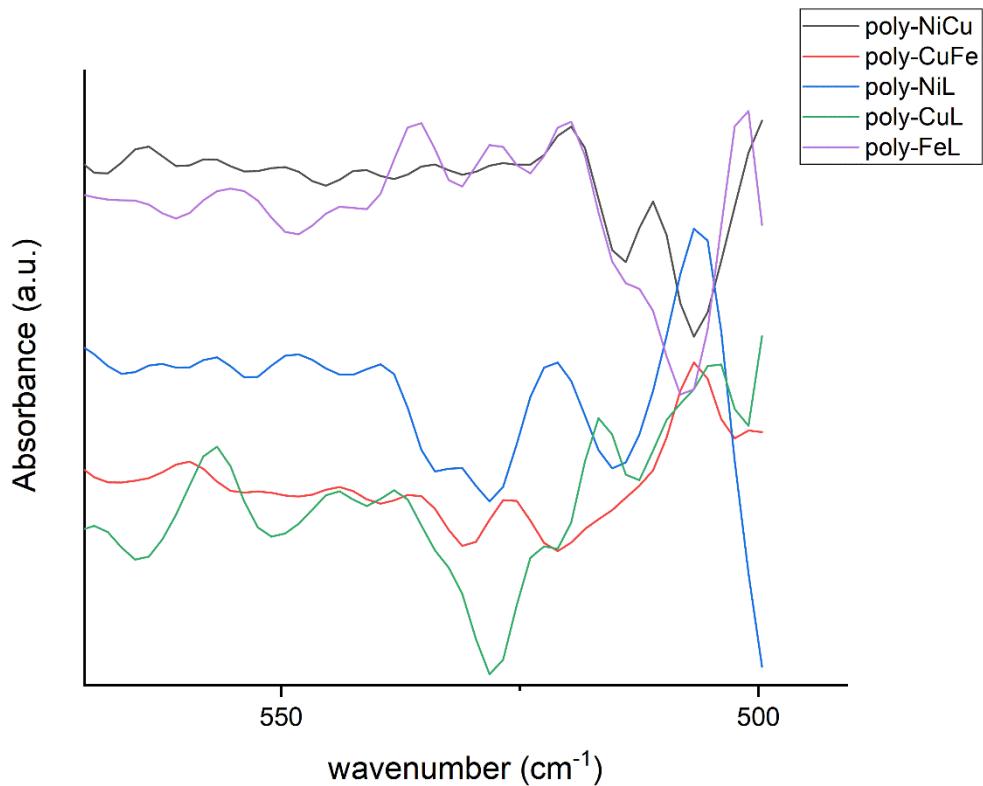


Figure S8. FT-ATR spectra of all films in the $570 \text{ cm}^{-1} - 500 \text{ cm}^{-1}$ range

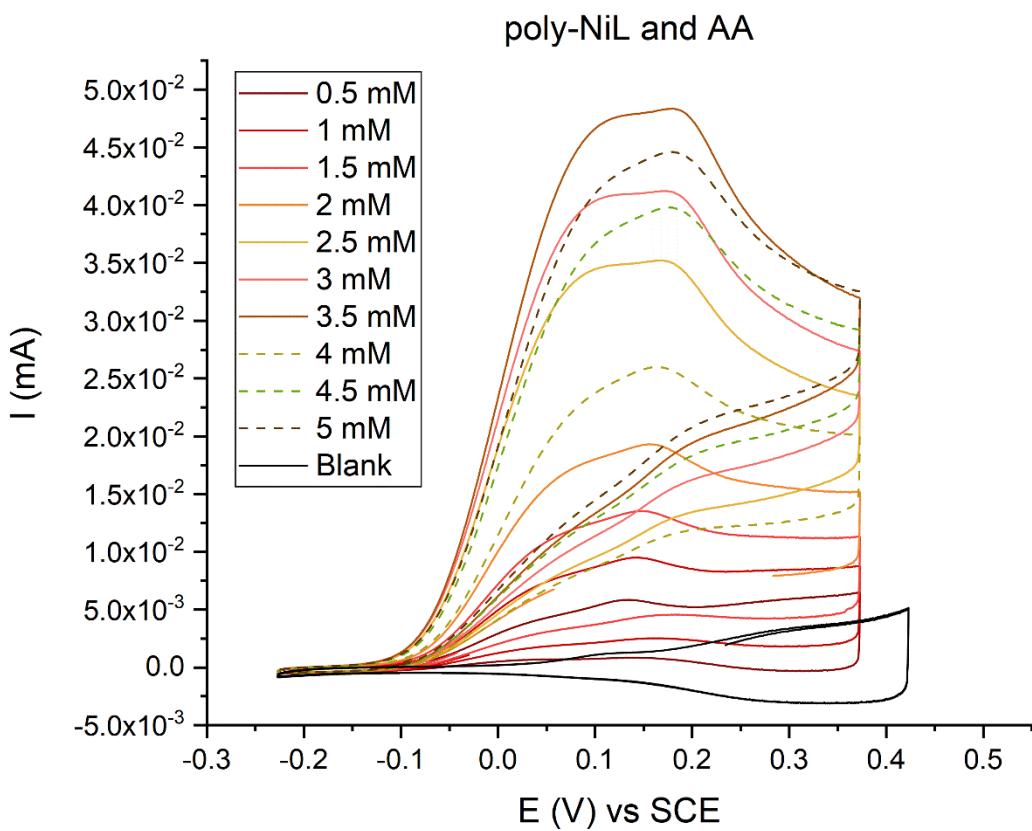


Figure S9. CVs recorded for poly-NiL by adding increasing amounts of ascorbic acid (50 mV/s scan rate)

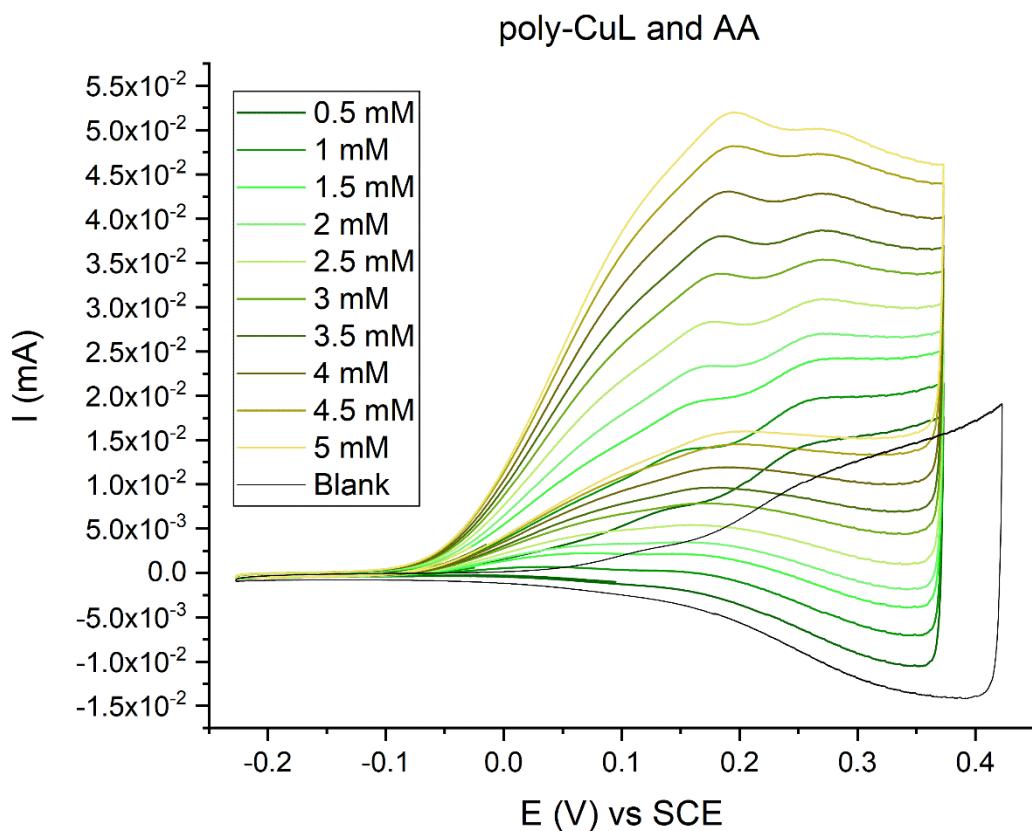


Figure S10. CVs recorded for poly-CuL by adding increasing amounts of ascorbic acid (50 mV/s scan rate)

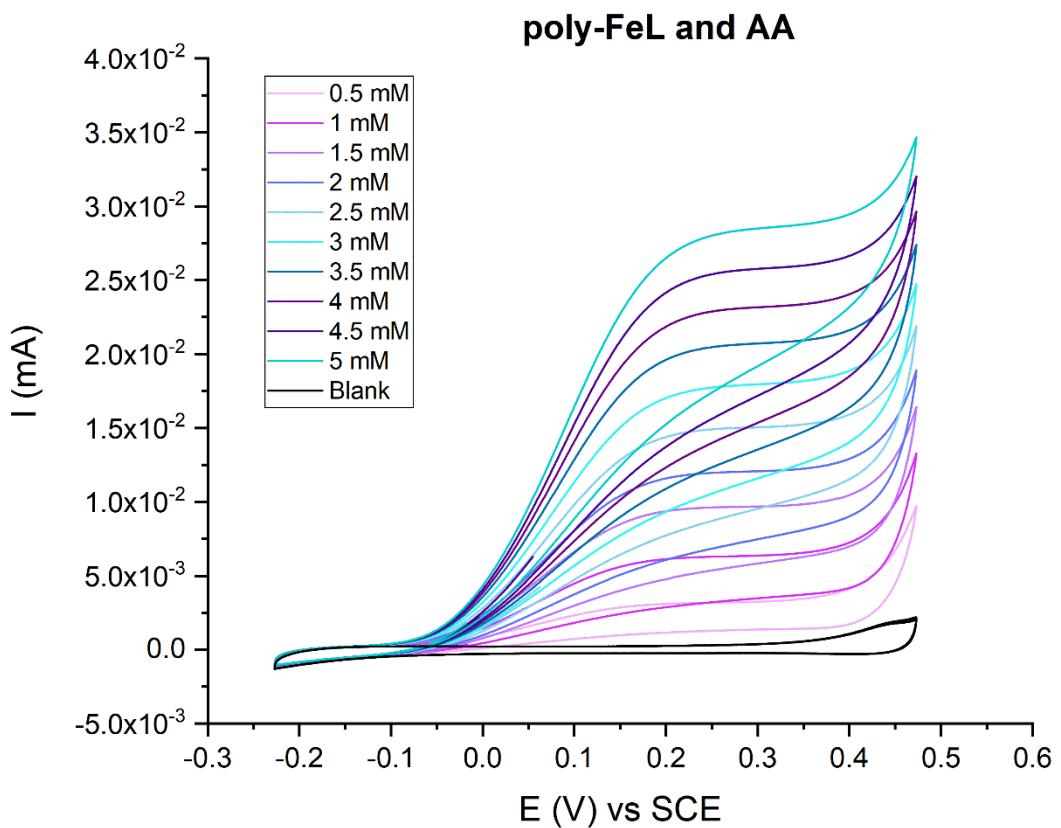


Figure S11. CVs recorded for poly-FeL by adding increasing amounts of ascorbic acid (50 mV/s scan rate)

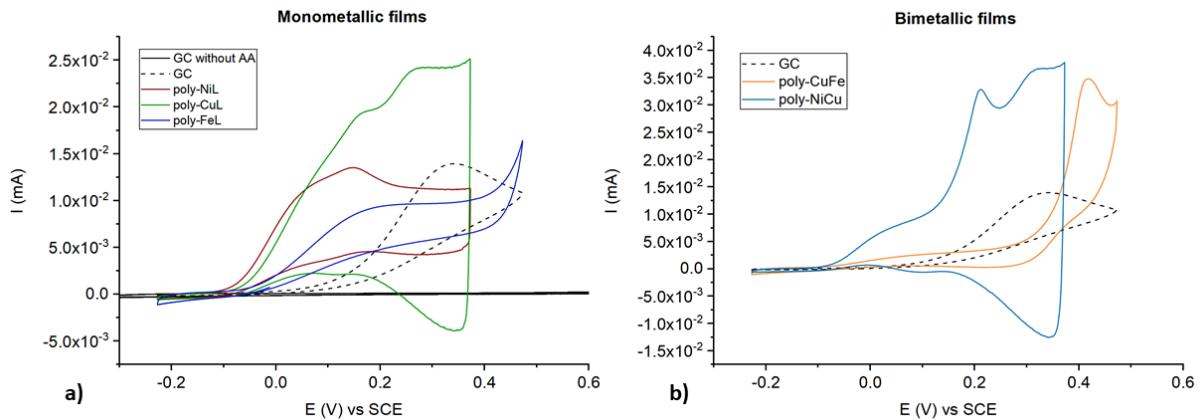


Figure S12. AA ($C=1.5\text{ mM}$) oxidation profile recorded at 50 mV/s for monometallic (a) and bimetallic (b) films