

Electronic Supplementary Information

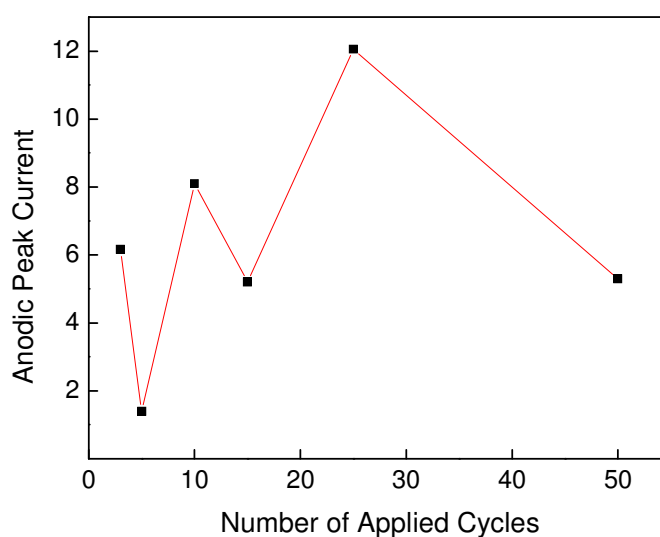


Figure 1S – Anodic peak current in function of number of applied cycles on electropolymerization step. Peak current of the coated electrode was obtained in aqueous solution (KCl 0.5 mol L⁻¹).

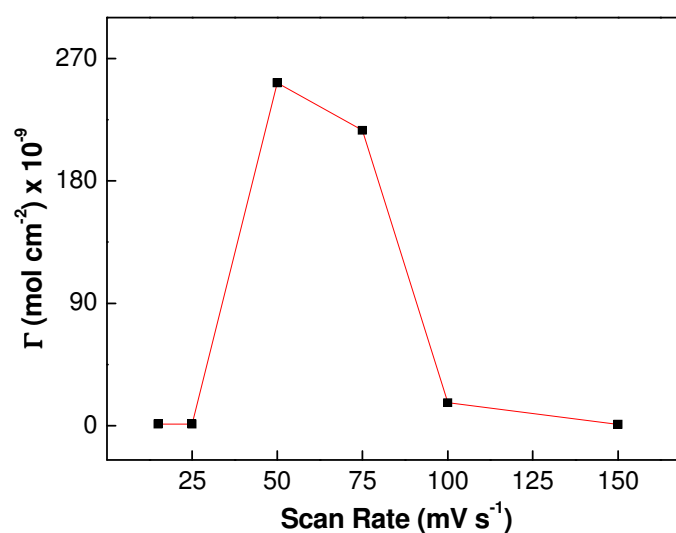


Figure 2S – Surface coverage values in function of scan rate used on electropolymerization stage.

Table S2 – Values of anodic potential observed to poly[Ni₂(*bisalphen*)] obtained in different scan rate used on electropolymerization

Scan Rate of Electropolymerization (mV s ⁻¹)	Peak potential (E/ mV) ^a			Γ (mol cm ⁻²) ^b
	I	II	III	
15	- 586	-86*	456	1.25 x 10 ⁻⁹
25	-415	37*	542	1.28 x 10 ⁻⁹
50	-567	-370	436	2.52 x 10 ⁻⁷
75	-434	-	452	2.17 x 10 ⁻⁷
100	-509*	-342	552	1.70 x 10 ⁻⁸
150	-631	-74*	-	8.65 x 10 ⁻¹⁰

*potential peak with low current values; ^apotential values *versus* SCE; ^b values canceled to first anodic peak from Equation 1.

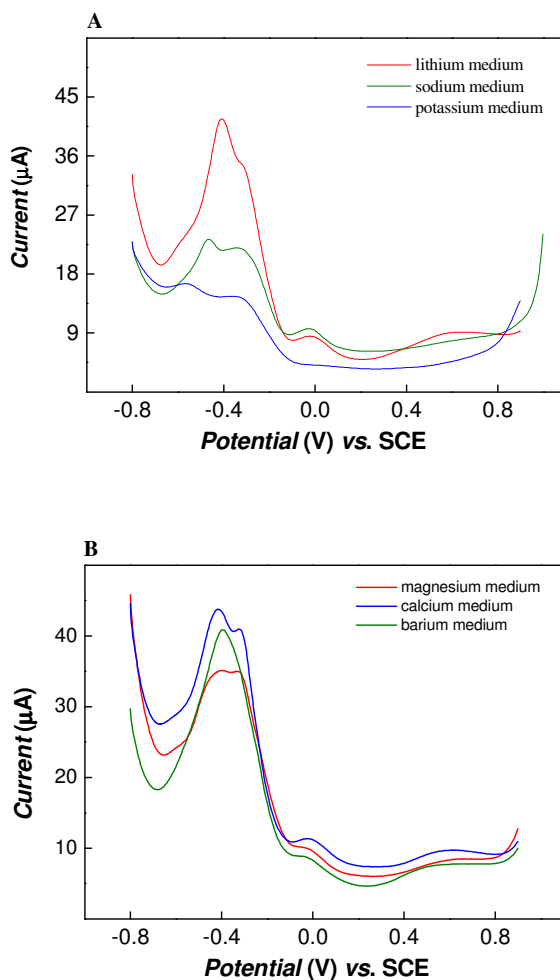


Figure 2S – Differential pulse voltammogram of poly[Ni₂(*bisalphen*)] modified electrode in presence of different cations: (A) alkaline and (B) alkaline earth. (pulse = 50 mV; scan rate = 5 mV s⁻¹).