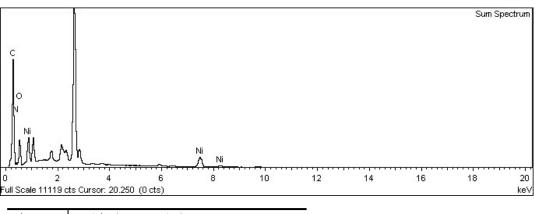
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Element	Weight%	Atomic%
СК	55.11	71.27
NK	5.05	5.60
ОК	17.83	17.31
Ni K	22.01	5.82
Totals	100.00	
	I.	

Fig. S1. EDX spectrum of Ni/PDDA/rGO/SPCE

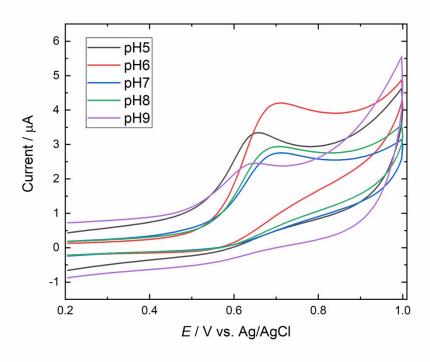


Fig. S2 CV of Ni/PDDA/rGO/SPCE in 20.0 μ M NaNO₂ + 0.1 M PBS different pH at a scan rate of 50 mV s⁻¹.

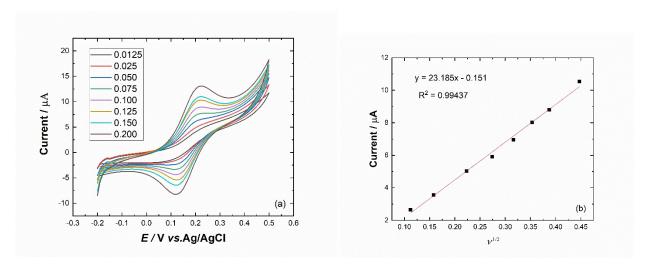


Fig. S3 (a) CV at various scan rates in a solution of 5 mM Fe(CN)₆^{3-/4-} in 0.1 M KCl and (b) anodic peak current (I_{pa}) linearly increased with the square root of scan rate ($v^{1/2}$)

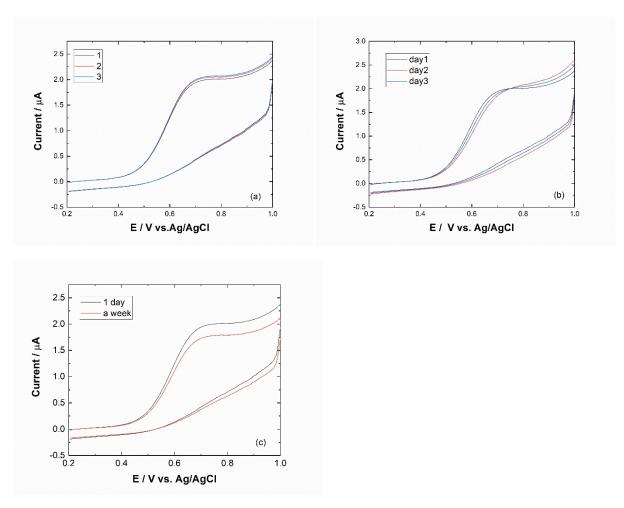


Fig. S4 CVs of (a) intra-assay, (b) inter-assay precision (RSD) and (c) stability of the Ni/PDDA/rGO/SPCE