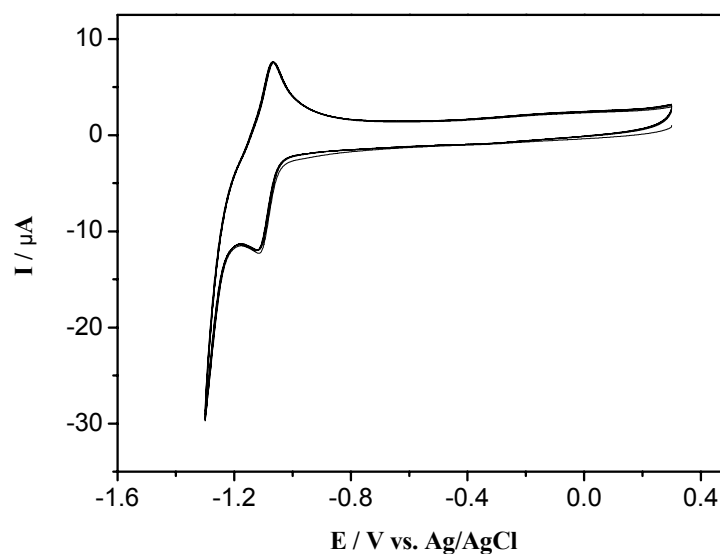


**Figure S1.** Cyclic voltammogram of **1** in a pH 4.0 medium (0.5 M NaAc + HAc). Polyanion concentration:  $2.4 \times 10^{-4}$  M. The scan rate was  $100 \text{ mV}\cdot\text{s}^{-1}$ . The working electrode was glassy carbon, and the reference electrode was Ag/AgCl. The voltammetric pattern is restricted to the Ru-centered process.



**Figure S2.** Evolution of cyclic voltammograms of **1** as a function of time in a pH 4.0 medium (0.5 M NaAc + HAc). Polyanion concentration:  $2.4 \times 10^{-4}$  M. The scan rate was  $100 \text{ mV}\cdot\text{s}^{-1}$ . The working electrode was glassy carbon, and the reference electrode was Ag /AgCl. The voltammetric pattern is restricted to the W redox process.