**Supplementary material to**

# Synthesis, characterization and electrochemical properties of cobalt-doped phosphate tungsten heteropoly acid and its bronze

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The glassy carbon working electrode with the pasted Co-PWA was put in an aqueous solution of $LiNO_3$, and the displacement of the material was not observed, as pointed out in Fig. S1a.

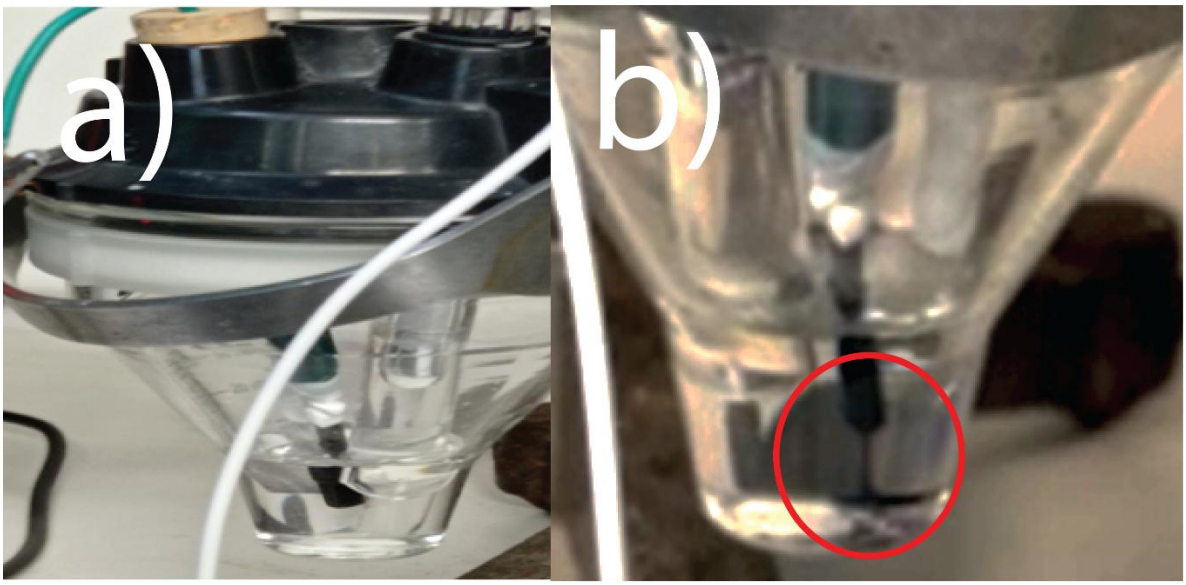


***Figure S1.*** *An electrode with a pasted Co-PWA immersed in an aqueous solution of $LiNO_3$ a), over cycling the material was precipitating on the bottom of the reaction cell. The black residue is the electrode material from glassy carbon electrode b)*

During the insertion of ions, the material precipitated into an electrolyte from the electrode Fig. S1b). Figure S1 presents the electrode material Co-PWA pasted on the glassy carbon electrode and the precipitation of the same material over ions' insertion regime of cyclic voltammetry.