

Supplementary information

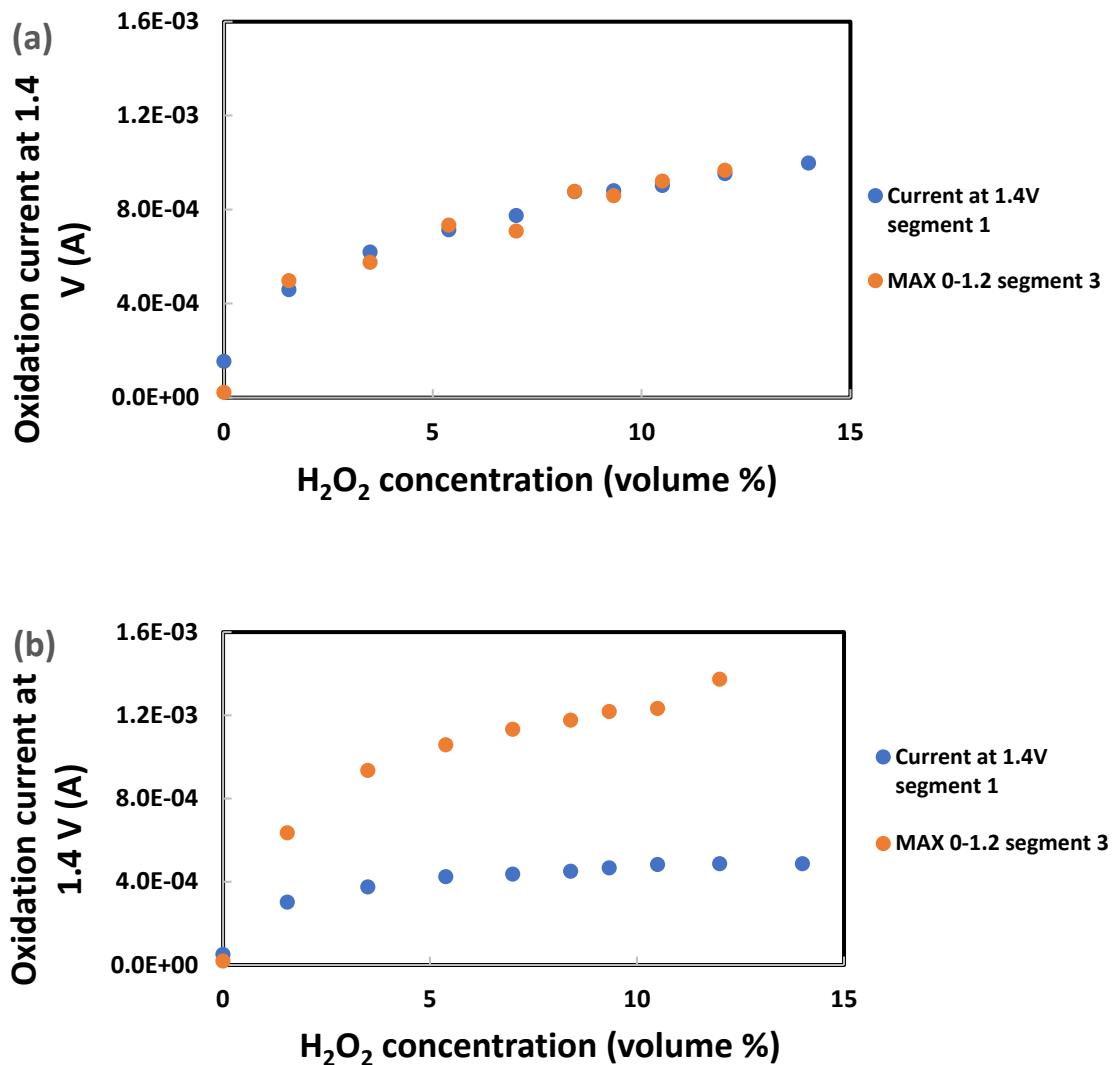


Figure S1. Re-oxidation peak currents measured at 0.5-1.0 V vs. Ag/AgCl in segment 1 vs. segment 3 for varying hydrogen peroxide concentrations on graphite screen-printed electrodes with a deposit of (a) 118 µg of ZnO nanoparticles, and (b) 114 µg of ZnO₂ nanoparticles.

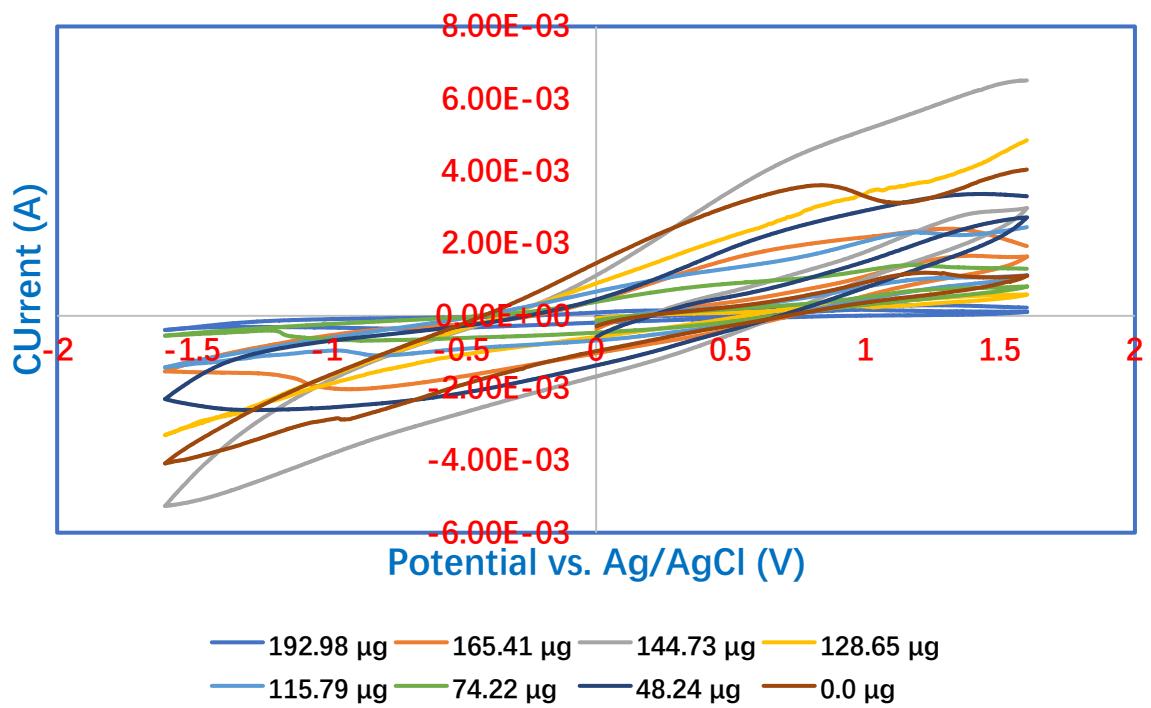


Figure S2: Cyclic voltammograms of sodium metabisulfite (0.003 M in 1.0 M KCl solution) using SPEs with different amounts of ZnO nanoparticles deposited after polypyrrole coating. Initial potential: 0.0 V, low potential: -1.6 V, high potential: +1.6 V, segments: 3.

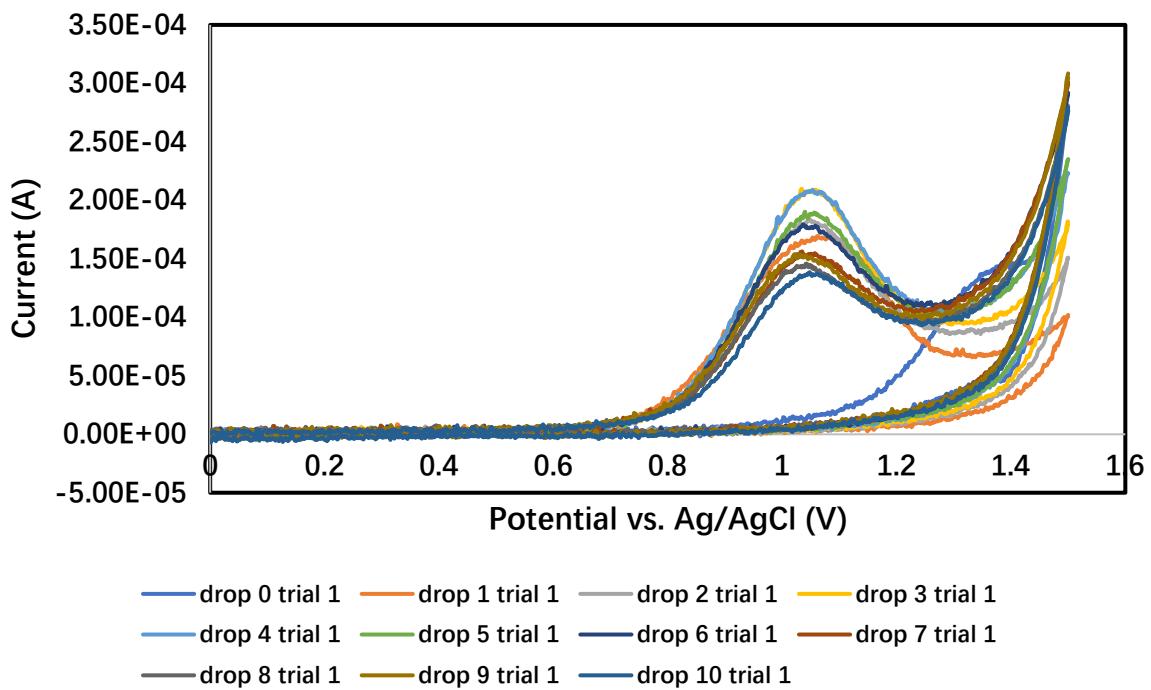


Figure S3. Cyclic voltammograms of 0.003 M sodium metabisulfite in 1.0 M KCl solution using SPEs with/without a deposit of TiO₂/ZnO nanoparticles after addition of meso-tetrakis(4-carboxyphenyl) porphyrin.