Article

Facile Detection of Vitamin B12 with Copper Oxide Nanocrystal Graphenic Composite Electrode

Chao Tian [1], Na Zhao [2], Xinyue Jiang [1], Duanji Wan [1] and Yuqun Xie [3,*]

Supplementary Materials

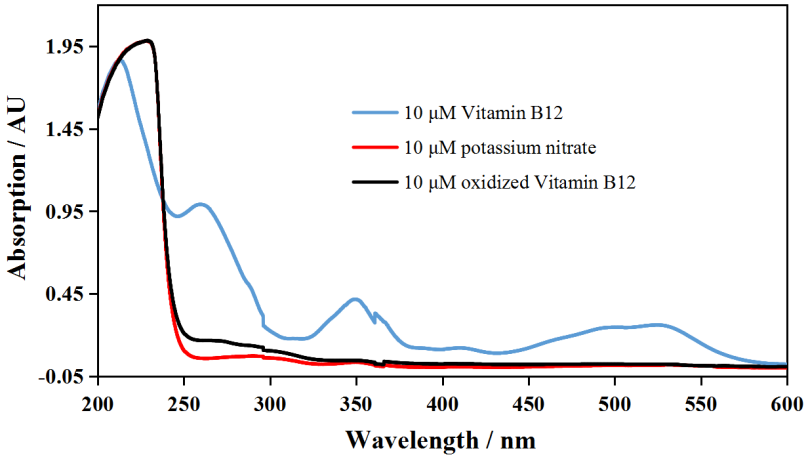


Figure S1. Absorption spectra of VB12, oxidized VB12 and potassium nitrate.

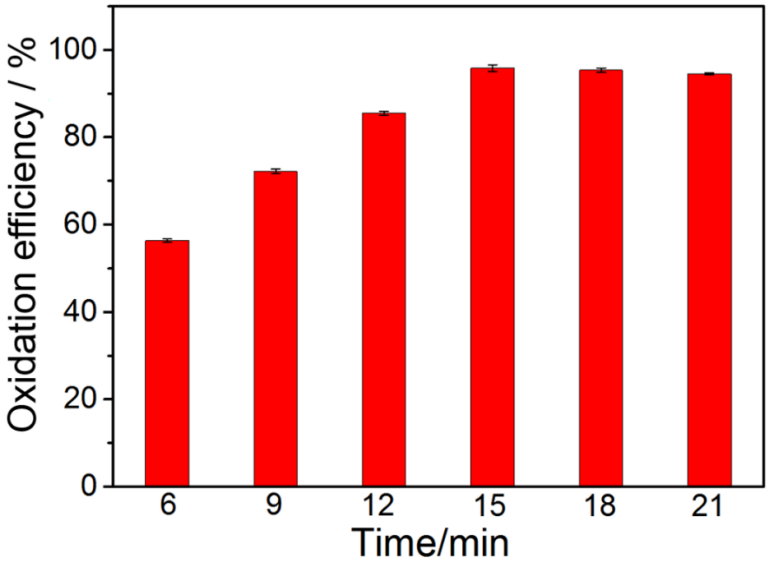


Figure S2. Oxidation efficiency of VB12.

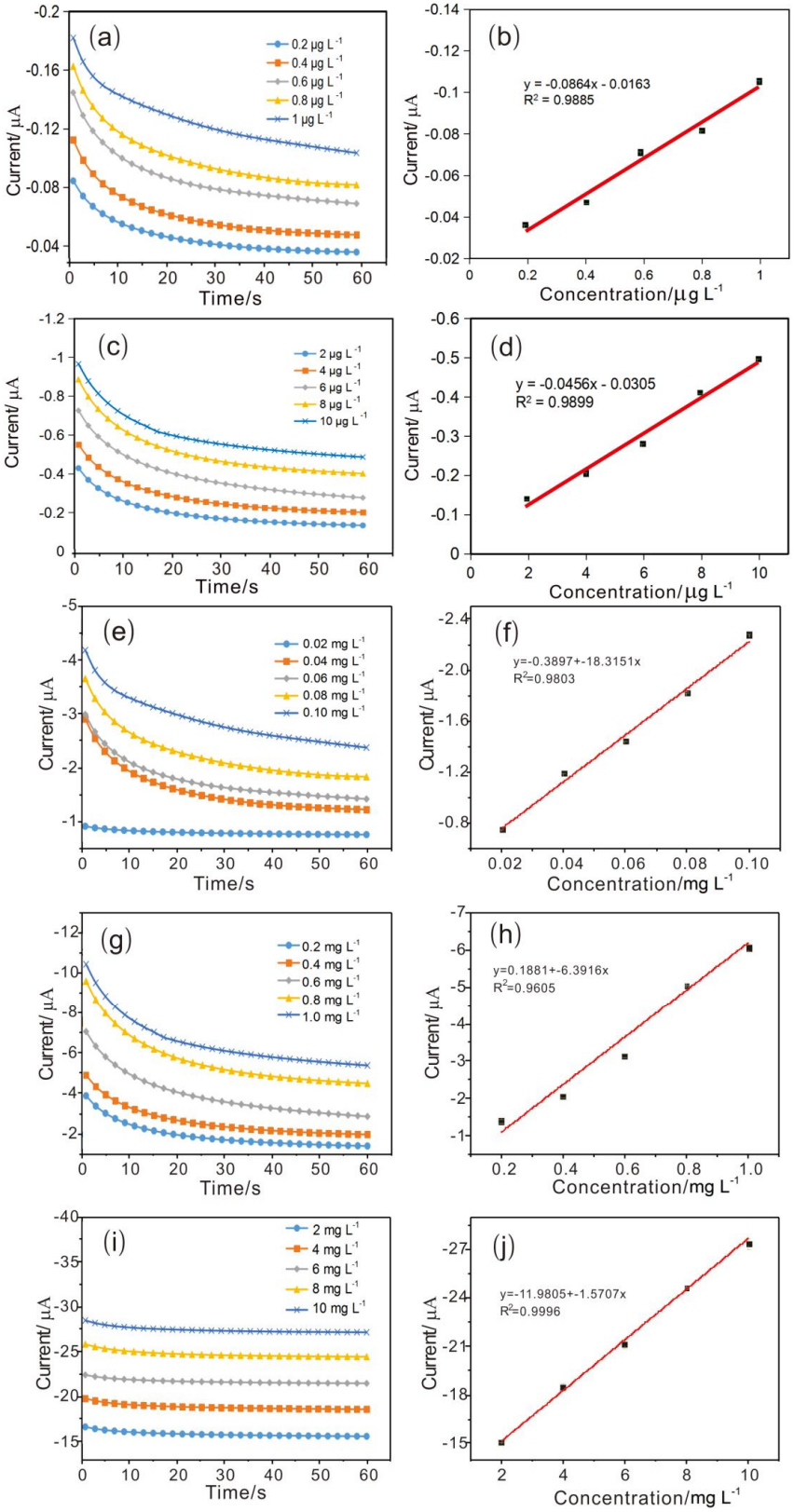


Figure S3. I-t curves of VB_{12} with different concentrations in the range of 0.2-1 μg L^{-1} (a), 2-10 μg L^{-1} (c), 0.02-0.10 mg L^{-1} (e), 0.2-1.0 mg L^{-1} (g), 2-10 mg L^{-1} (i) at −1.36 V and (b, d, f, h, and j) corresponding calibration plots.

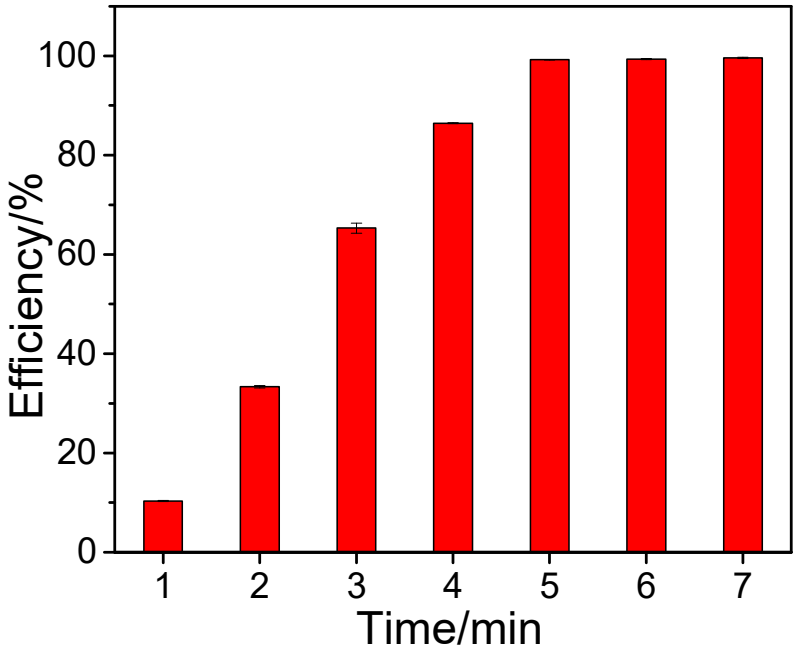


Figure S4. Effect of polarization time on the removal ratio of metal ions at −0.5 V.