

Electronic Supplementary Information

Arsenic(III) Detection Using Electrochemical-Chemical-Chemical Redox Cycling at Bare Indium–Tin Oxide Electrodes

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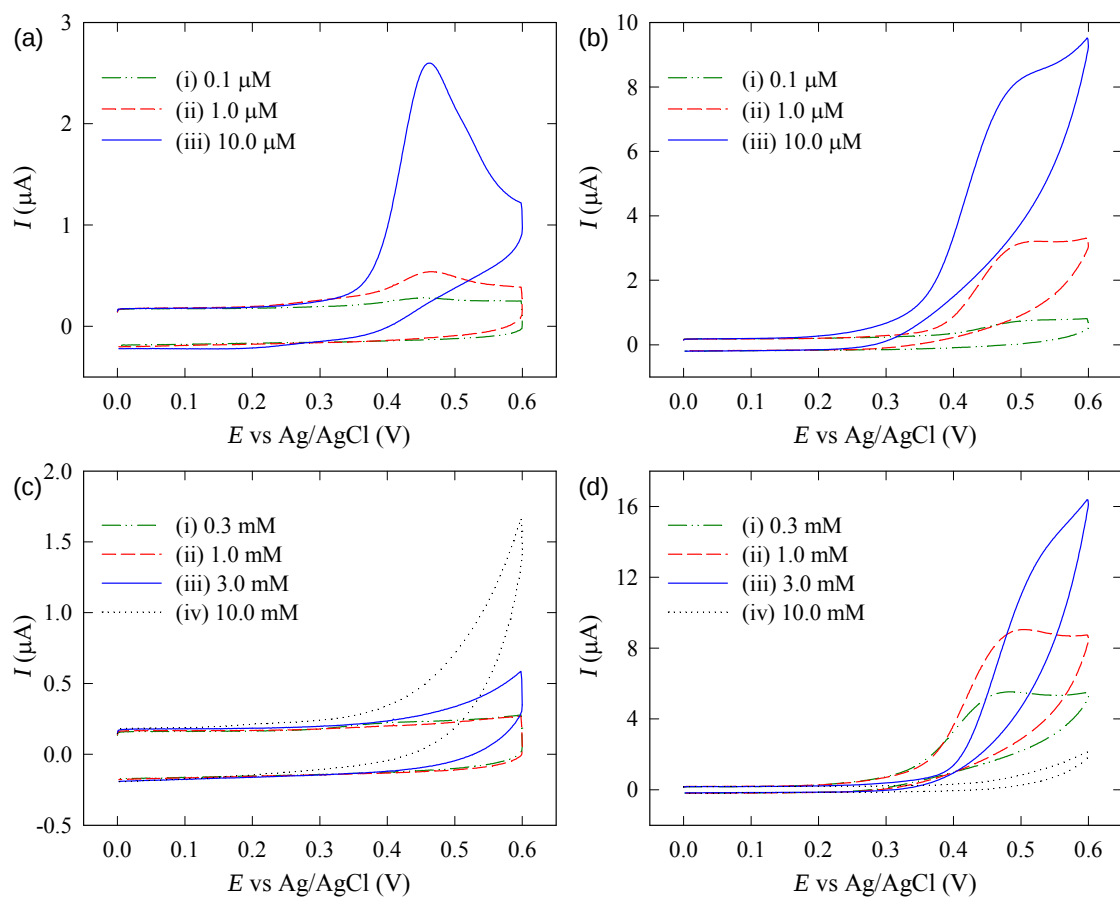


Fig. S1 Cyclic voltammograms obtained at bare ITO electrodes (at a scan rate of 50 mV/s) in (a) carbonate buffers (pH 9, 50 mM) containing (i) 0.1, (ii) 1.0, or (iii) 10.0 μM $\text{Ru}(\text{NH}_3)_6^{3+}$, (b) carbonate buffers containing (i) 0.1, (ii) 1.0, or (iii) 10.0 μM $\text{Ru}(\text{NH}_3)_6^{3+}$, 10 μM As(III) and 1.0 mM TCEP, (c) carbonate buffers containing (i) 0.3, (ii) 1.0, (iii) 3.0, or (iv) 10.0 mM TCEP, and (d) carbonate buffers containing 10.0 μM $\text{Ru}(\text{NH}_3)_6^{3+}$, 10 μM As(III) and (i) 0.3, (ii) 1.0, (iii) 3.0, or (iv) 10.0 mM TCEP.