

Supporting Information

Electrochemical synthesis of poly (3-aminophenylboronic acid) in ethylene glycol without exogenous protons

Feifan Wang,^a Feixue Zou,^a Xinxin Yu,^a Zhenyu Feng,^a Na Du,^a Yaohua

Zhong^b and Xirong Huang^{*a, b}

^aKey Laboratory of Colloid and Interface Chemistry of the Education Ministry of China, Shandong University, Jinan 250100, China

^bState Key Laboratory of Microbial Technology of China, Shandong University, Jinan 250100, China

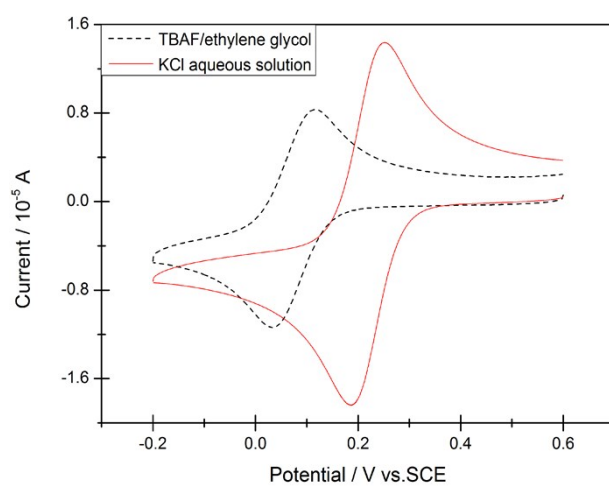
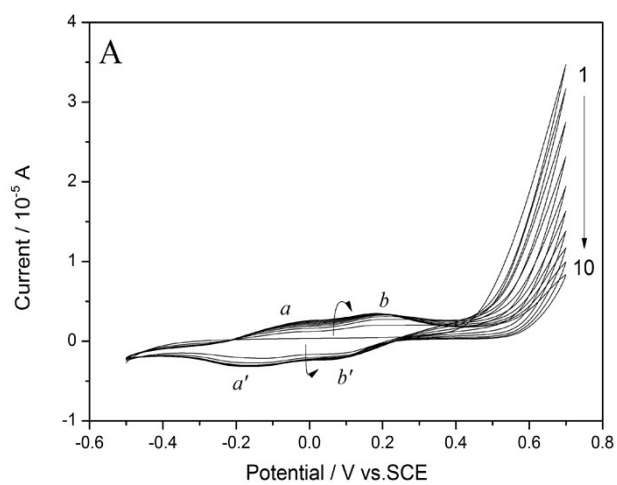


Fig. S1. Cyclic voltammograms of 1 mM $K_3[Fe(CN)_6]$ in 0.5 M KCl aqueous solution or 200 mM TBAF in ethylene glycol. The working, counter and reference electrodes are GCE, Pt wire, and SCE, respectively. The scan rate is $100 \text{ mV} \cdot \text{s}^{-1}$.



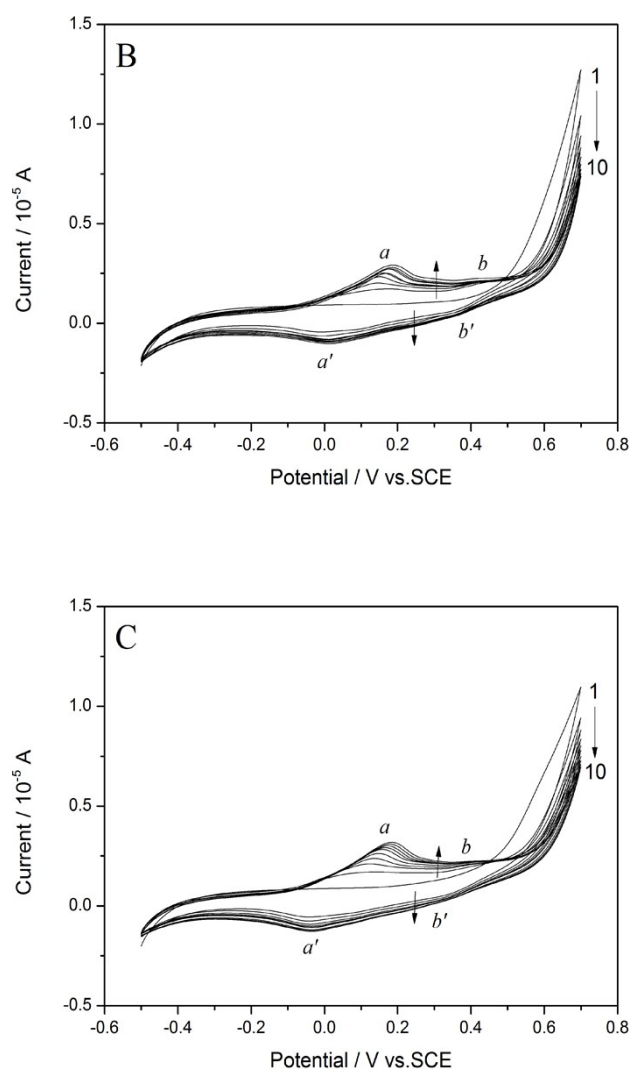


Fig. S2. Cyclic voltammograms (10 cycles) of the APBA electropolymerization in TBAF (100 mM)/ethylene glycol (A), TBACl (100 mM)/ethylene glycol (B), and TBABF₄ (100 mM)/ethylene glycol (C). The working electrode is GCE. The potential window is over -0.5 ~ 0.7 V. The scan rate is 50 mV·s⁻¹.