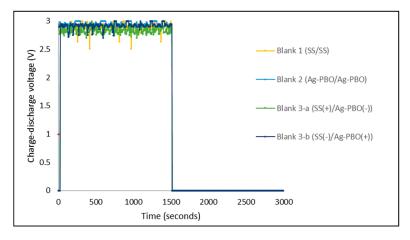


Supplementary Figure 1: Chemical structure of PEDOT:PSS [19]



Supplementary Figure 2: Charge-discharge characteristics of blank devices (without PEDOT:PSS) using various electrodes (SS/SS, Ag-PBO/Ag-PBO, SS(+)/Ag-PBO(-), and SS(-)/Ag-PBO(+)), each charged at 3 volt.