Supporting Information

Sulfonation of Surface-Initiated Polynorbornene Films

Brad J. Berron, P. Andrew Payne, G. Kane Jennings*

Department of Chemical Engineering, Vanderbilt University, Nashville, Tennessee 37235

Figure S1 contains equivalent circuit models for the unmodified and SAM-coated gold surfaces (Figure 1A) as well as the polynorbornene and sulfonated polynorbornene films (Figure 1B). Figure 1A contains a solution resistance \( R_s \) as well as an interfacial capacitance \( C_i \). Since no redox probes are present in these studies, the interfacial resistance is effectively infinite and is not shown in either of the circuits. Figure 1B contains a solution resistance, a resistance \( R_f \) against proton transfer and a capacitance \( C_f \) provided by the polymer film, and an interfacial capacitance.

![Figure S1](image_url)  

Figure S1. Equivalent circuit models used for the unmodified gold and SAM/initiator-coated gold (A) and for the sulfonated and non-sulfonated polymer films (B).