

Supporting Information

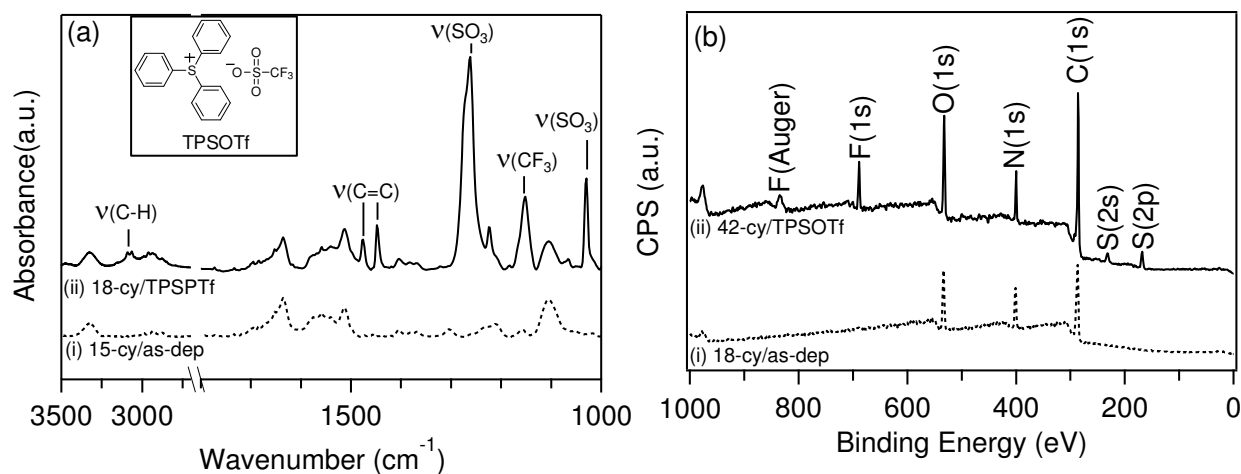


Figure 1s. (a) FTIR spectra of (i) a 15-cycle PDIC/PDDE film, as deposited and (ii) a 18-cycle PDIC/PDDE film soaked with TPSOTf. Labeled peaks are assigned to TPSOTf absorptions. The inset shows the chemical structure of TPSOTf. (b) XPS spectra of (i) a 18-cycle PDIC/PDDE film, as deposited and (ii) a 42-cycle PDIC/PDDE film soaked with TPSOTf.

Note: for Figure 1s(b), the detection depth for XPS is thinner than both films. So the two XPS spectra show the chemical compositions of the surfaces, rather than the bulk, of the two films, respectively.