Supporting Information Figure Captions

Figure 1. External reflection FTIR spectra of 1, 2, 3, 4, 5, and 6 layers of PAA on porous alumina (0.02 μm pore diameter) that was sputter coated with 63 nm of gold.

Figure 2. Transmission FTIR spectra of a 3-layer PAA film before and after fluorination. The substrate was gold-coated (5 nm) porous alumina (0.02 μm pore diameter).

Figure 3. Field-emission scanning electron micrograph (cross-section) of a 4-layer PAA film grown on a gold-coated (63 nm) porous alumina membrane (0.02 μm pore diameter). The membrane was imaged without coating with gold after cleavage.
Figure 1, Supporting Information, Nagale et al.
Figure 2, Supporting Information, Nagale et al.
Figure 3, Supporting Information, Nagale et al.