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Figure S1. TGA curve of the polymer S-(-)-P with a heating rate of 10 °C/min.

Figure S2. CD and UV-vis spectra of the monomers measured in NMP at room temperature \((c = 1\times10^{-3}\) M).

Figure S3. Temperature-dependent CD spectra of R-(+)-P in NMP at a concentration of \(1\times10^{-3}\) M.

Figure S4. Cyclic voltammograms of S-(+)-P in film. CH3CN containing TBAP (0.1 M) at room temperature, scan rate of 100 mV/s, Pt disk working electrode, potentials vs Ag/AgCl.
**Figure S5.** Optical attenuation of film of $S$(-)-$P$ at 420 nm with stepping potentials between -0.7 and +0.4 V and a switching time of 20 seconds.

**Figure S6.** Optical attenuation of film of $S$(-)-$P$ at 780 nm with stepping potentials between -0.7 and +0.4 V and a switching time of 20 seconds.

**Figure S7.** CD spectra of $S$(-)-$P$ ($5 \times 10^{-3}$ M containing 0.1 M TBAP) in solution at 0.0, -0.7V, and -1.3 V.

**Figure S8.** CD spectra of $R$(+)-$P$ ($5 \times 10^{-3}$ M containing 0.1 M TBAP) in solution at 0.0, -0.7V, and -1.3 V.