Supplementary Materials

Electrochromism in electropolymerized films of pyrene-triphenylamine derivatives

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Figure S1. CVs recorded during the oxidative electropolymerization of (a,b) 1 and (c,d) 2 on an ITO glass electrodes by 20 repeated potential scan cycles between (a,c) 0 and +1.2 V or (b,d) 0 and +1.4 V at 100 mV/s.

Figure S2. SEM images of P1/ITO glass film. Images were obtained using a field-emission microscope (JEOL S-4800) operated at an acceleration voltage of 1 kV. Prior to measurement, an ultrathin conductive Au coating was deposited on the top of the polymeric films on ITO glass electrodes by low vacuum sputter coating of the sample.
Figure S3. Transmittance changes of (a) P1 at 1450 nm switched between +0.60 and +0.93 V and of (b) P2 at 1475 nm between +0.60 and +0.92 V in 0.1 M $\text{Bu}_4\text{NClO}_4$/ClCH$_2$CH$_2$Cl.

Figure S4. $^1$H NMR spectrum of compound 1 (400 MHz, CDCl$_3$, 298 K).
Figure S5. $^1$H NMR spectrum of compound 2 (400 MHz, CDCl$_3$, 298 K).
Figure S6. HRMS data of compound 1.
Figure S7. HRMS data of compound 2.