Supplementary Materials

Facile Synthesis of Electroactive and Electrochromic Triptycene Poly(ether-imide)s Containing Triarylamine Units via Oxidative Electro-coupling

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Figure S1. IR spectra of model compounds M₁ and M₂, together with compounds 4, 7 and 8.
Figure S2. (a) $^1$H NMR and (b) H-H COSY spectra of M1 in DMSO-$d_6$. 
Figure S3. (a) $^1$H NMR and (b) H-H COSY spectra of M2 in CDCl$_3$ (* solvent peak).
Figure S4. Mass spectra of monomers TPA-TPDI and NPC-TPDI.
Figure S5. Mass spectra of model compound M1.
Figure S6. Mass spectra of model compound M2.
Figure S7. Potential step absorptiometry of the cast film of NPC-TPPI on the ITO-glass slide (coated area ~ 1 cm²) (in CH₂Cl₂ with 0.1 M Bu₄NClO₄ as the supporting electrolyte) by applying a potential step; (a) optical switching at potential 0.00 V ⇄ 1.18 V (10 cycles) with a pulse width of 16 s, monitored at λₘₐₓ = 415 nm; (b) the 1st cycle transmittance change for the NPC-TPPI thin film.