Supporting Information

Multicolored Electrochromism from Benzodipyrrolidone-Based
Ambipolar Electrochrome at a Fixed Potential

Yuan Ling, Chunlan Xiang, Gang Zhou*

Lab of Advanced Materials, Collaborative Innovation Center of Chemistry for Energy
Materials, Fudan University, Shanghai 200438, P. R. China
Fig. S1 Normalized UV-vis absorption spectra of the BDPs in DCM solutions.
Fig. S2 Cyclic voltammograms of compounds BDP1-BDP6 in DCM solutions.
**Fig. S3** (a) Transient profiles of current density and optical properties (absorbance and transmittance at 455 nm) of the 3rd type ECD based on BDP1 upon application of −2.0 V followed by open-circuit conditions. (b) Plots of optical density difference versus injected charge density.
**Fig. S4** (a) Transient profiles of current density and optical properties (absorbance and transmittance at 488 nm) of the 3\(^{rd}\) type ECD based on BDP2 upon application of −2.0 V followed by open-circuit conditions. (b) Plots of optical density difference versus injected charge density.
**Fig. S5** (a) Transient profiles of current density and optical properties (absorbance and transmittance at 506 nm) of the 3rd type ECD based on BDP3 upon application of −2.0 V followed by open-circuit conditions. (b) Plots of optical density difference versus injected charge density.
Fig. S6 (a) Transient profiles of current density and optical properties (absorbance and transmittance at 544 nm) of the 3rd type ECD based on BDP4 upon application of −2.0 V followed by open-circuit conditions. (b) Plots of optical density difference versus injected charge density.
**Fig. S7** (a) Transient profiles of current density and optical properties (absorbance and transmittance at 572 nm) of the 3rd type ECD based on BDP5 upon application of −2.0 V followed by open-circuit conditions. (b) Plots of optical density difference versus injected charge density.
**Fig. S8** (a) Transient profiles of current density and optical properties (absorbance and transmittance at 626 nm) of the 3rd type ECD based on BDP6 upon application of −2.0 V followed by open-circuit conditions. (b) Plots of optical density difference versus injected charge density.