

Supporting Information

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

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Fig. S1 Normalized UV-vis absorption spectra of the **BDPs** in DCM solutions.

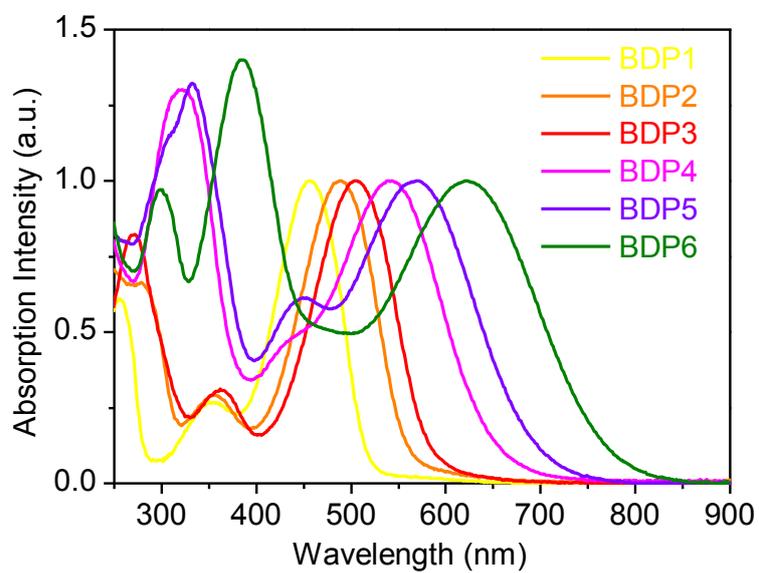


Fig. S2 Cyclic voltammograms of compounds **BDP1-BDP6** in DCM solutions.

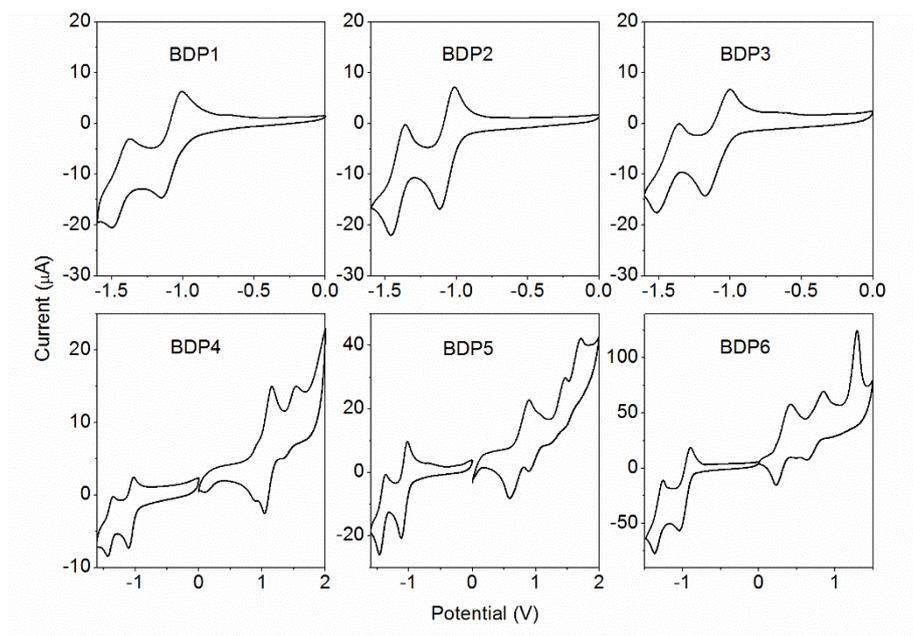


Fig. S3 (a) Transient profiles of current density and optical properties (absorbance and transmittance at 455 nm) of the 3rd type ECD based on **BDP1** upon application of -2.0 V followed by open-circuit conditions. (b) Plots of optical density difference versus injected charge density.

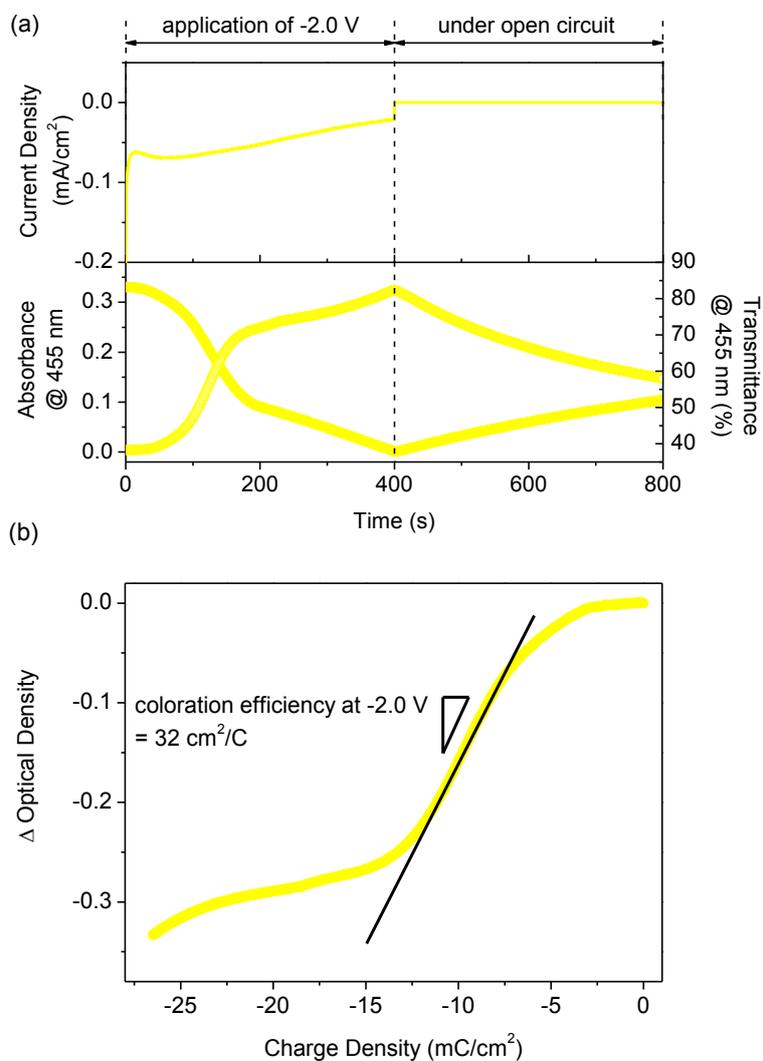


Fig. S4 (a) Transient profiles of current density and optical properties (absorbance and transmittance at 488 nm) of the 3rd type ECD based on **BDP2** upon application of -2.0 V followed by open-circuit conditions. (b) Plots of optical density difference versus injected charge density.

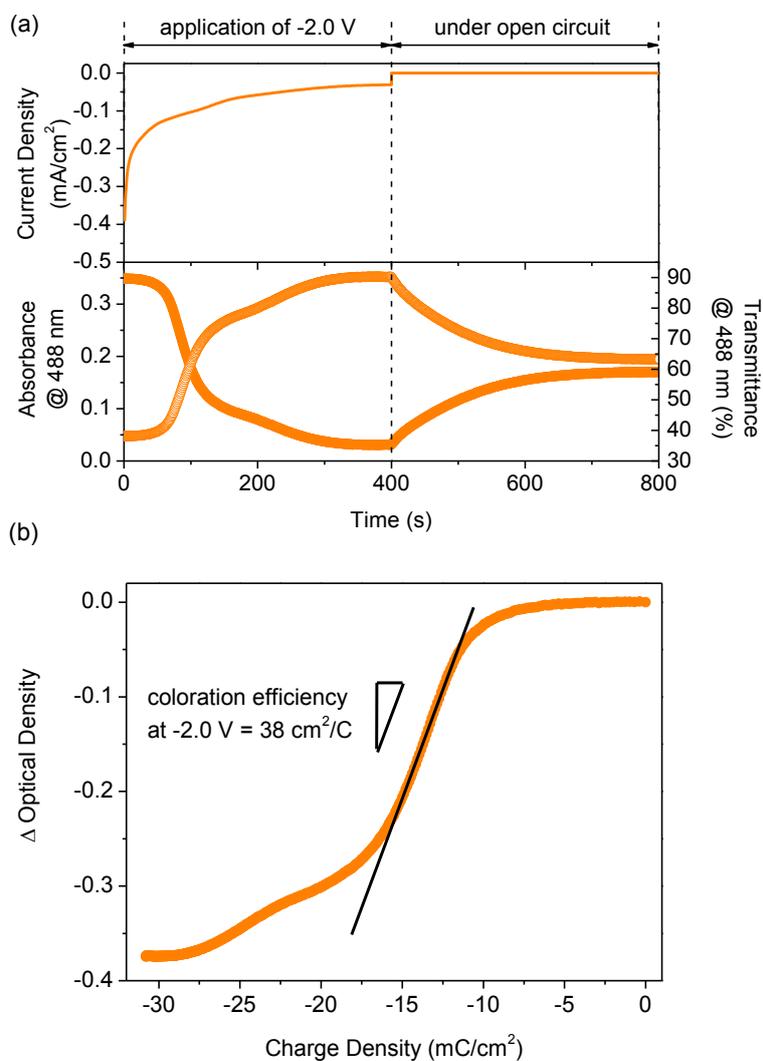


Fig. S5 (a) Transient profiles of current density and optical properties (absorbance and transmittance at 506 nm) of the 3rd type ECD based on **BDP3** upon application of -2.0 V followed by open-circuit conditions. (b) Plots of optical density difference versus injected charge density.

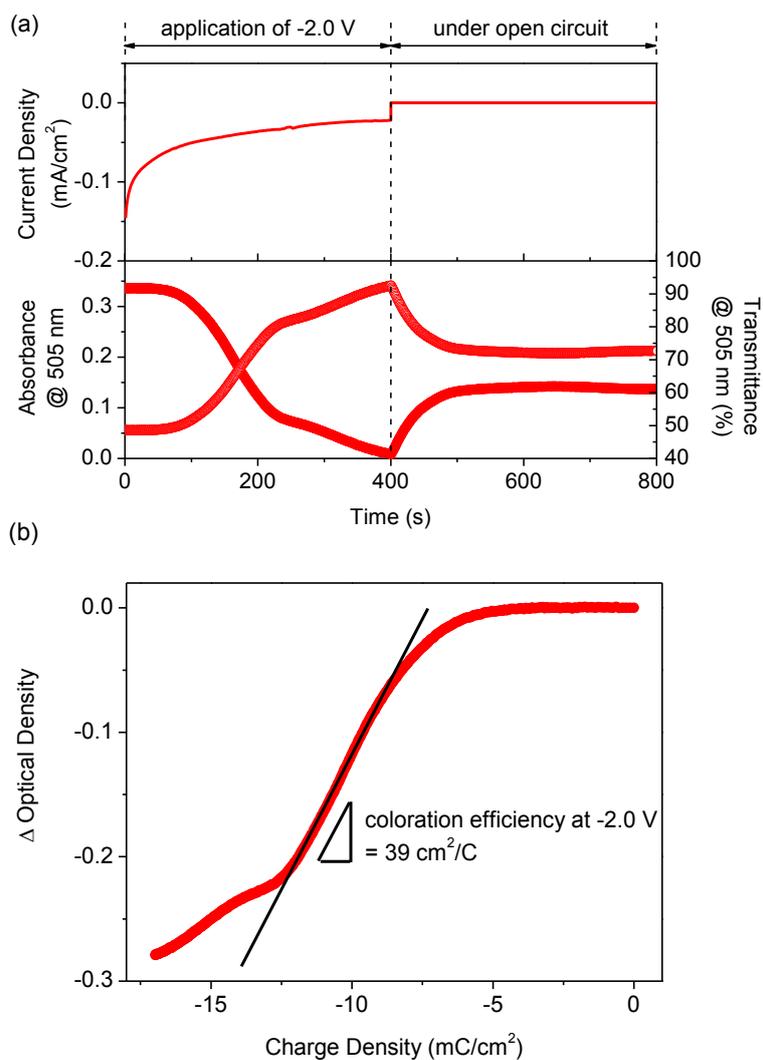


Fig. S6 (a) Transient profiles of current density and optical properties (absorbance and transmittance at 544 nm) of the 3rd type ECD based on **BDP4** upon application of -2.0 V followed by open-circuit conditions. (b) Plots of optical density difference versus injected charge density.

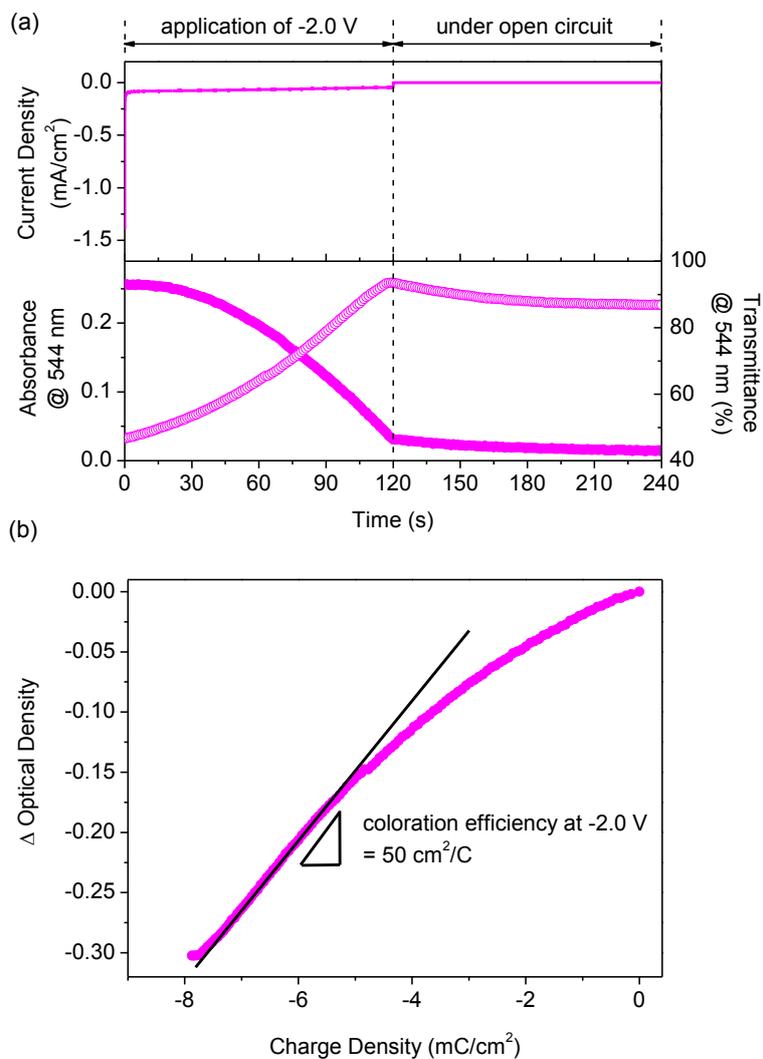


Fig. S7 (a) Transient profiles of current density and optical properties (absorbance and transmittance at 572 nm) of the 3rd type ECD based on **BDP5** upon application of -2.0 V followed by open-circuit conditions. (b) Plots of optical density difference versus injected charge density.

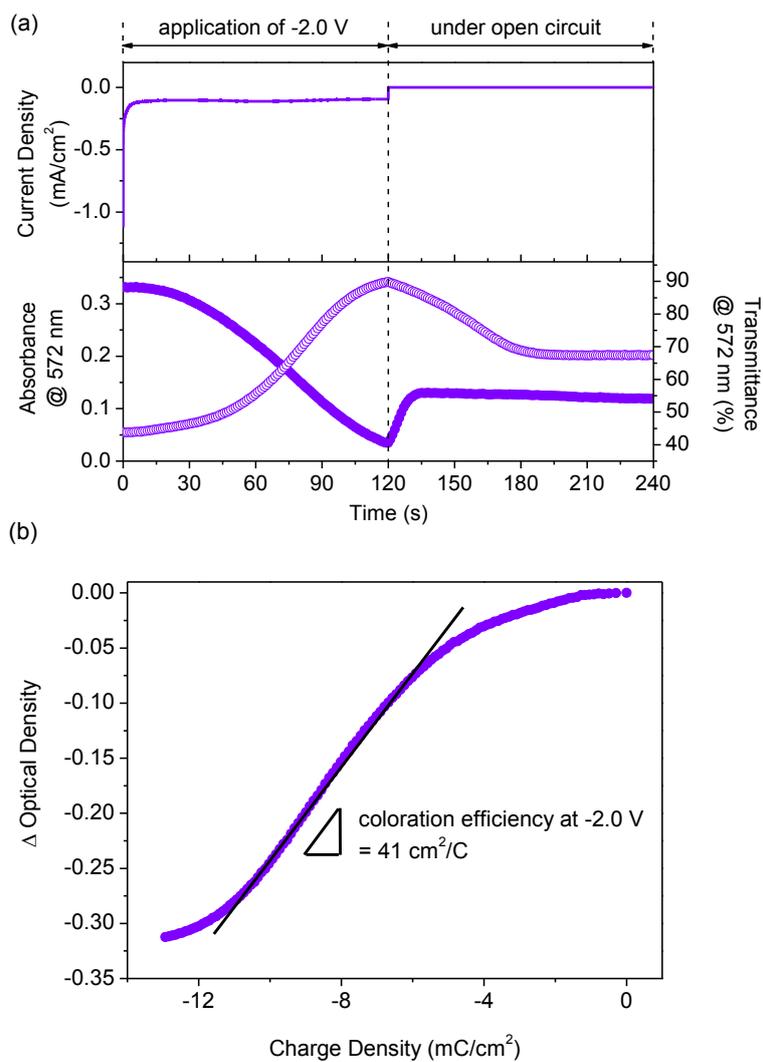


Fig. S8 (a) Transient profiles of current density and optical properties (absorbance and transmittance at 626 nm) of the 3rd type ECD based on **BDP6** upon application of -2.0 V followed by open-circuit conditions. (b) Plots of optical density difference versus injected charge density.

