Supporting Information

New Benzimidazole-Based Bipolar Hosts: Highly Efficient Phosphorescent and Thermally Activated Delayed Fluorescent OLEDs Employing the Same Device Structure

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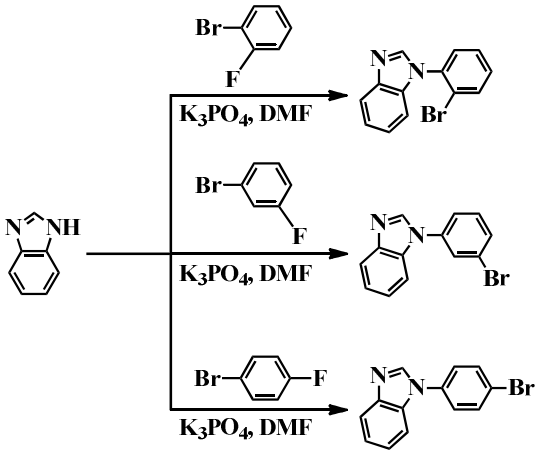

Scheme S1. Synthesis of 1-(2-bromophenyl)-1*H*-benzimidazole, 1-(3-bromophenyl)-1*H*-benzimidazole, and 1-(4-bromophenyl)-1*H*-benzimidazole

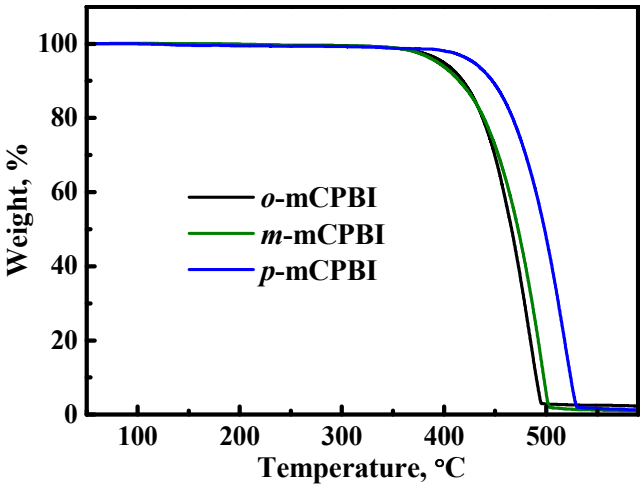

Figure S1. TGA thermograms of *o*-mCPBI, *m*-mCPBI, and *p*-mCPBI recorded at a heating rate of 10 °C/min under nitrogen atmosphere.

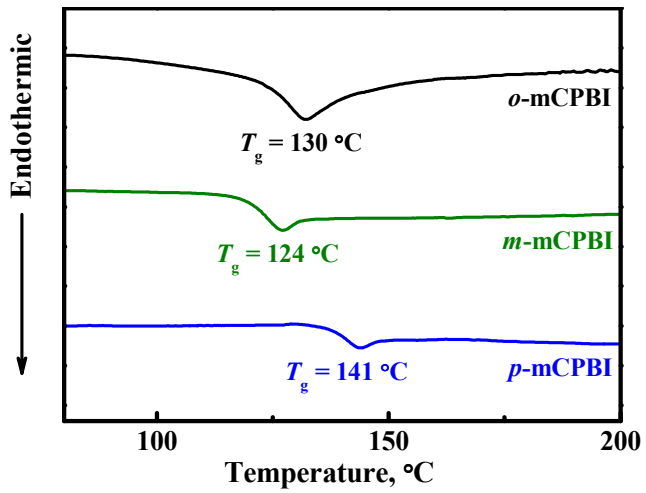

Figure S2. DSC traces of *o*-mCPBI, *m*-mCPBI, and *p*-mCPBI recorded at a heating rate of 10 °C/min.

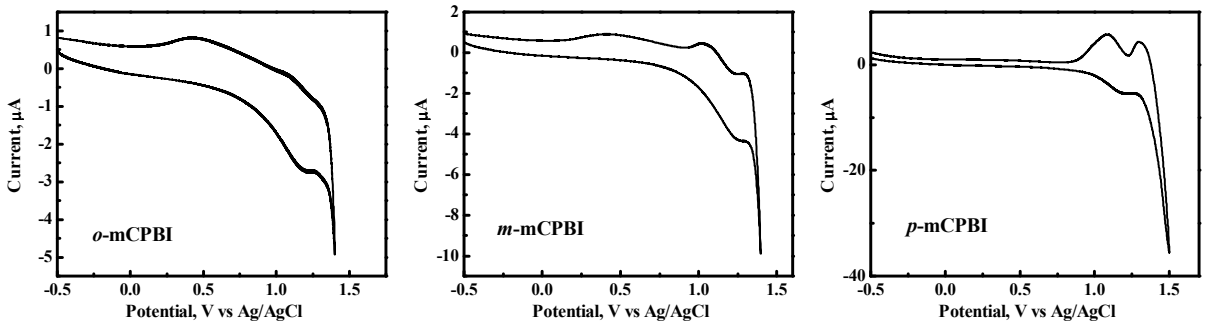

Figure S3. Cyclic voltammetric scans of *o*-mCPBI, *m*-mCPBI, and *p*-mCPBI.

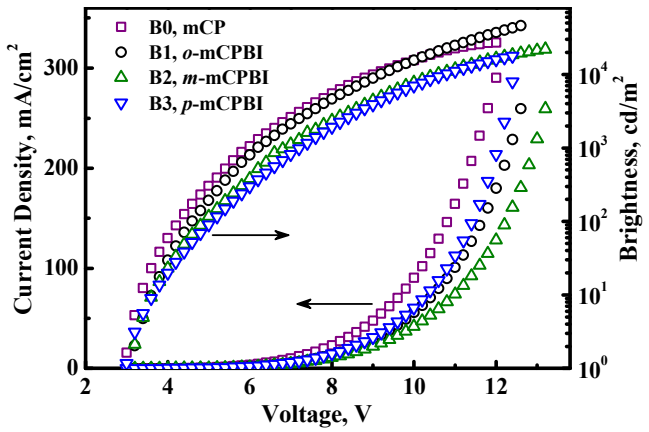

Figure S4. Current density-voltage-luminance characteristics for devices B0–B3.

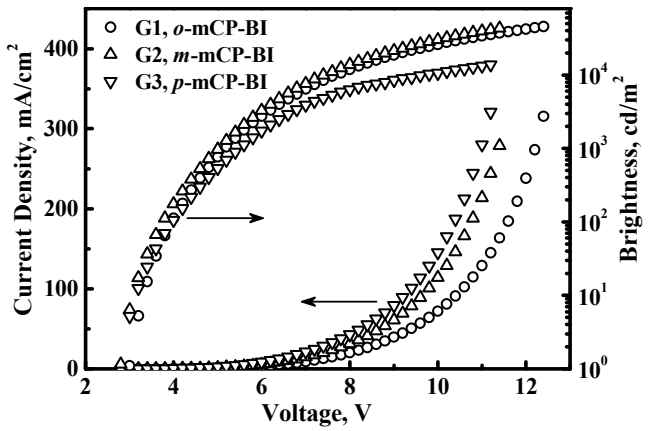

Figure S5. Current density-voltage-luminance characteristics for devices G1–G3.

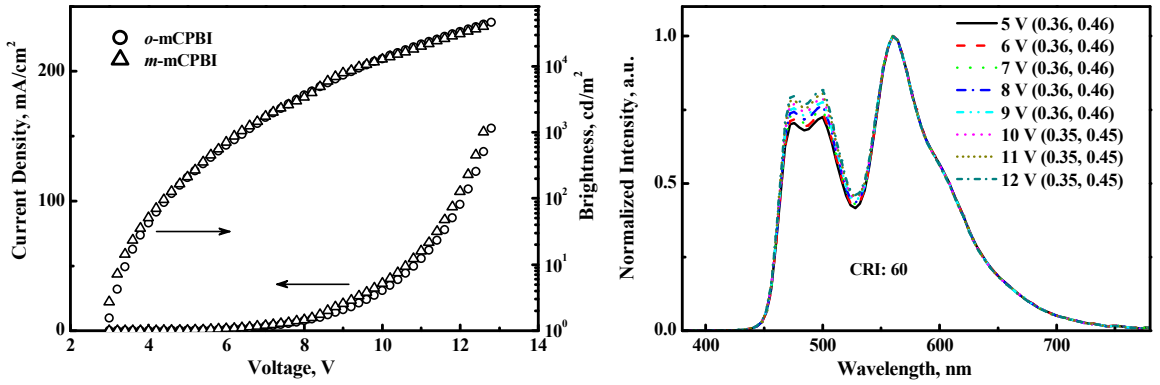

Figure S6. (a) Current density-voltage-luminance characteristics for devices W1 and W2. (b) EL spectra of device W2 at various voltages.