

Supporting Information

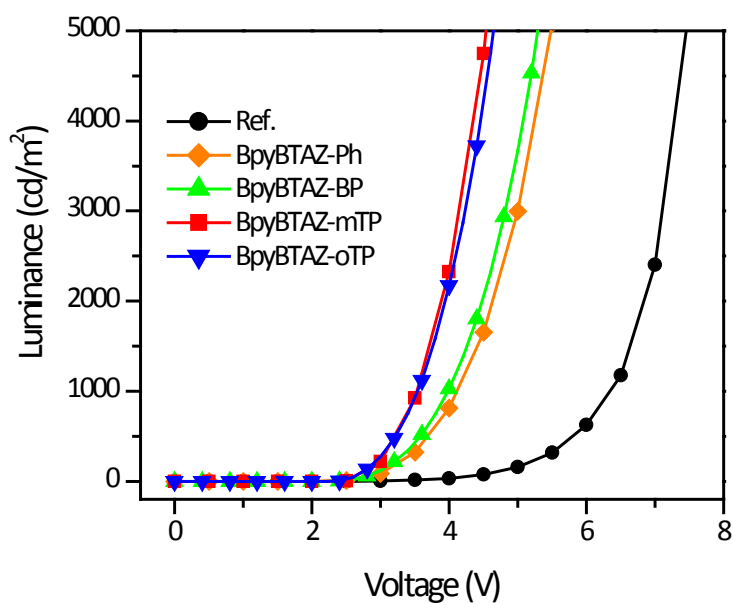


Fig. S1. Luminance-voltage characteristics of the devices shown in Fig. 6a.

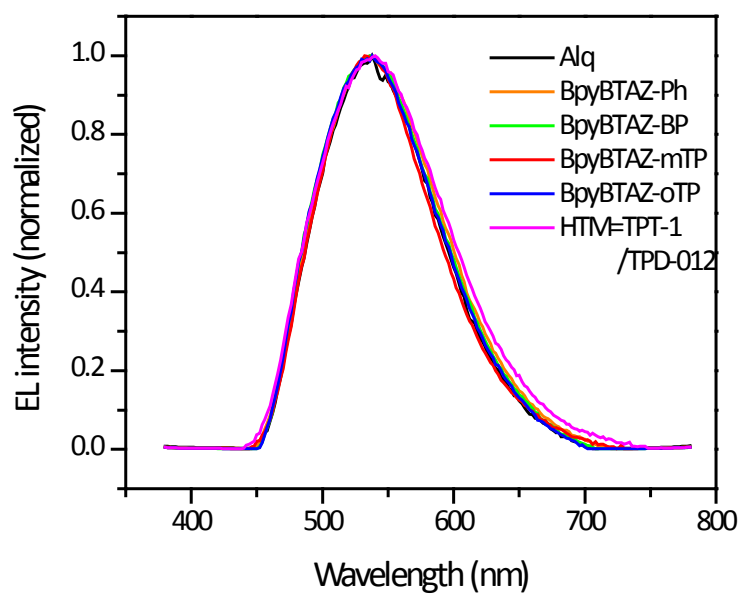


Fig. S2. EL spectra of the devices shown in Fig. 6b.

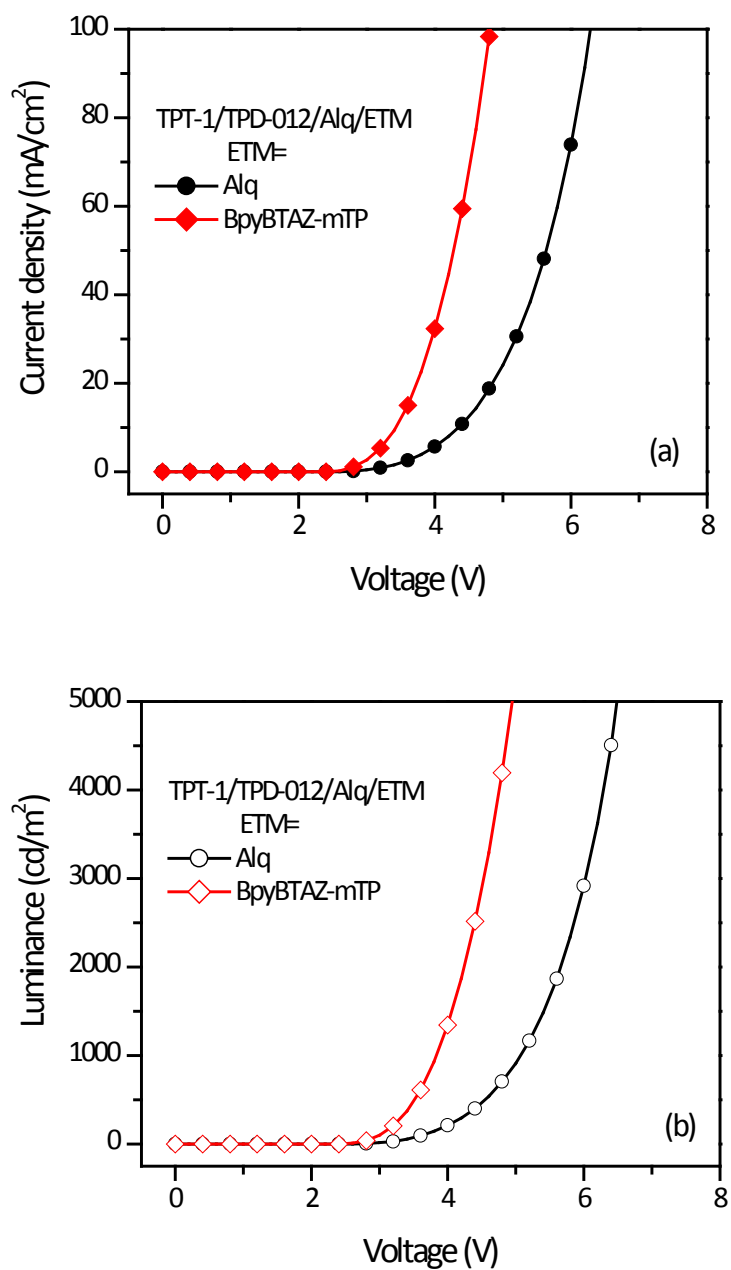


Fig. S3. (a) J-V and (b) luminance - voltage characteristics of the devices using a set of TPT-1 and TPD-012 as hole transporting layer. Alq or BpyBTAZ-mTP was used as the ETM.

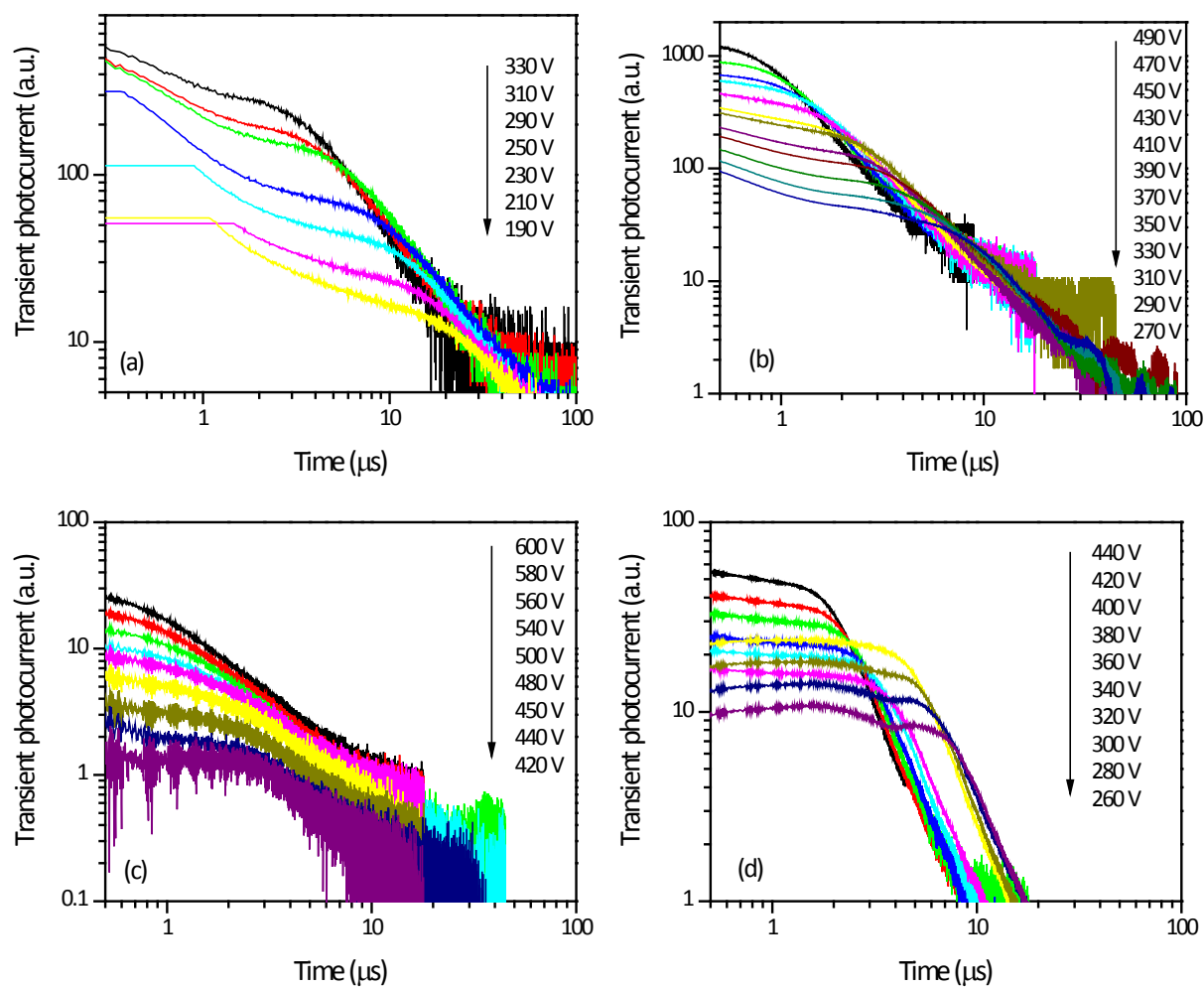


Fig. S4. Transient photocurrent responses for each material: (a) BpyBTAZ-Ph, (b) -BP, (c) -mTP, (d) -oTP. Thicknesses of each test cell are, respectively, 4.45 μm for -Ph, 3.65 μm for -BP, 5.20 μm for -mTP, and 5.15 μm for -oTP.