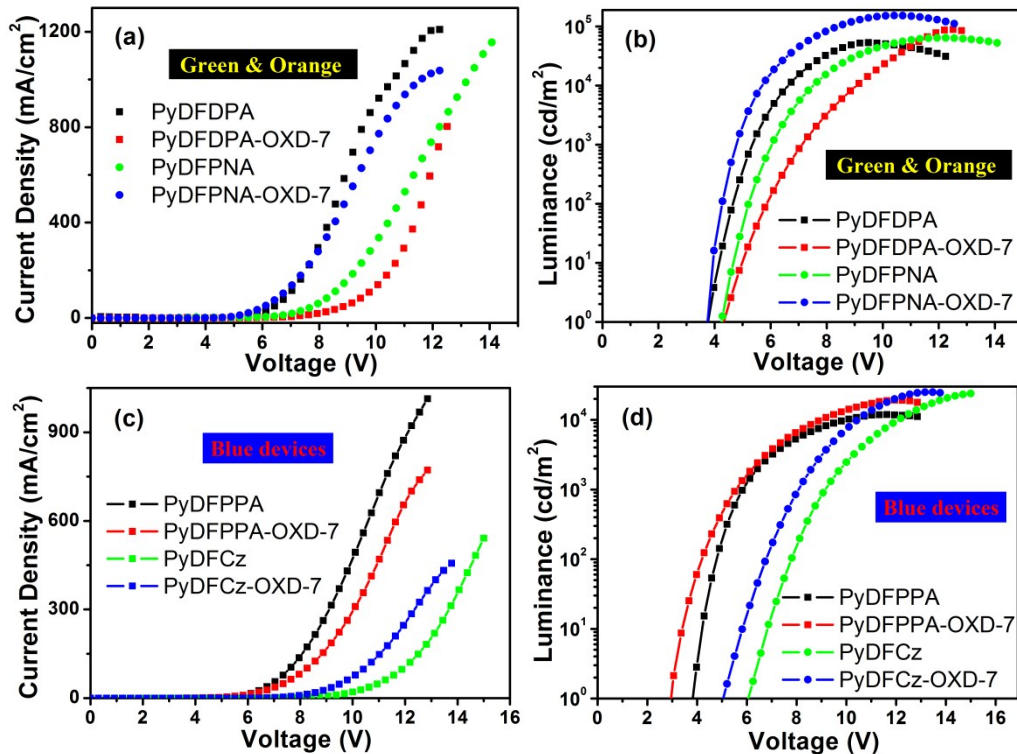
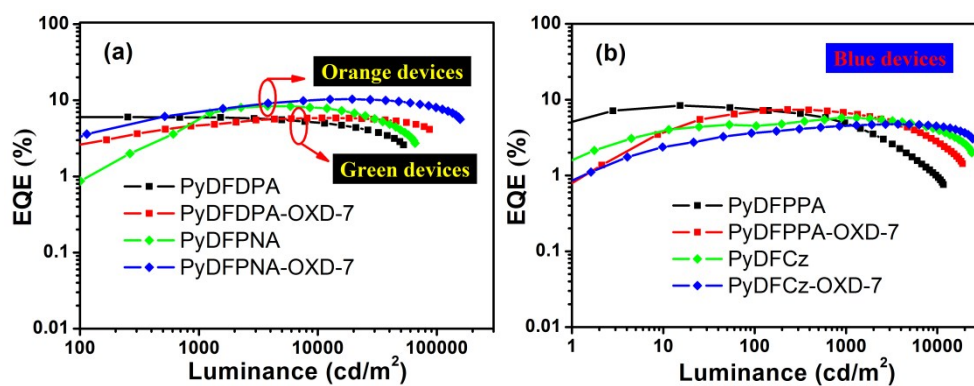


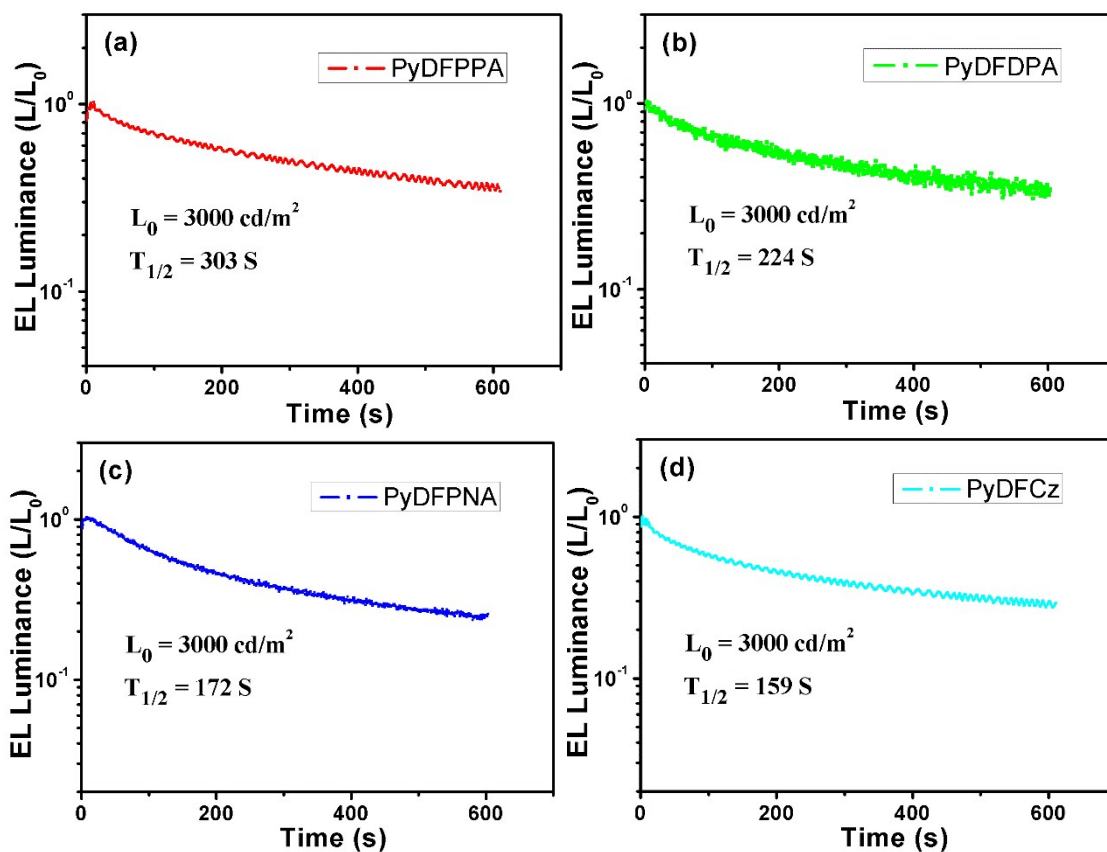
**Fig.S1.** The differential scanning calorimetry (DSC) curves of of PyDFDPA, PyDFPNA, and PyDFCz.



**Fig. S2.** Current density-voltage-luminance curves of the green, orange (a, b), and blue (c, d) OLEDs.



**Fig. S3.** EL efficiency versus luminance curves of the green, orange (a), and blue (b) OLEDs.



**Fig. S4.** Device operating lifetime of the blue, green, and orange phosphorescent devices based on PyDFPPA, PyDFDPA, PyDFPNA, and PyDFCz host at an initial luminance of 3000 cd m<sup>-2</sup> under constant current mode.