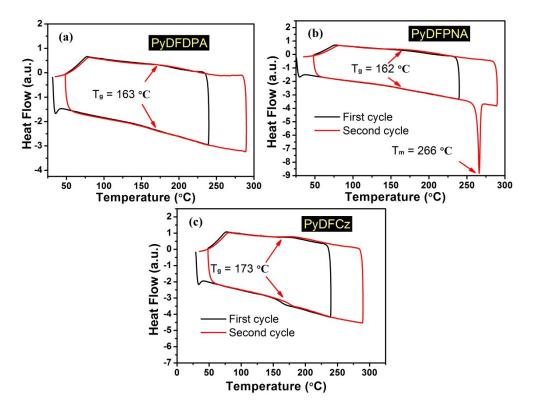
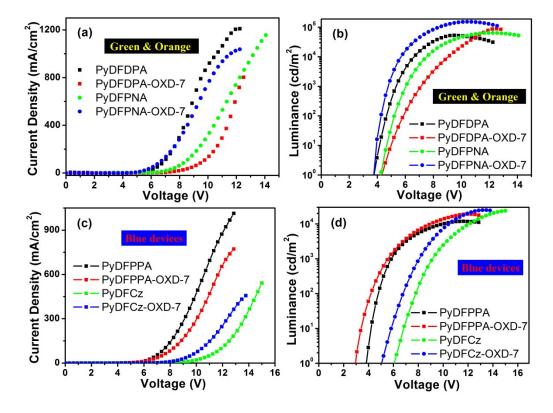
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**Fig.S1**. The differential scanning calorimetry (DSC) curves of of PyDFDPA, PyDFPNA, and PyDFCz.



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

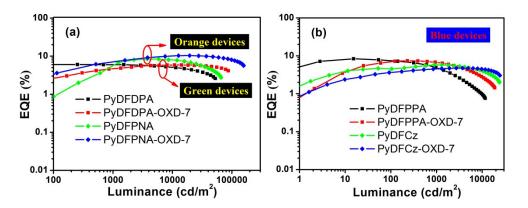
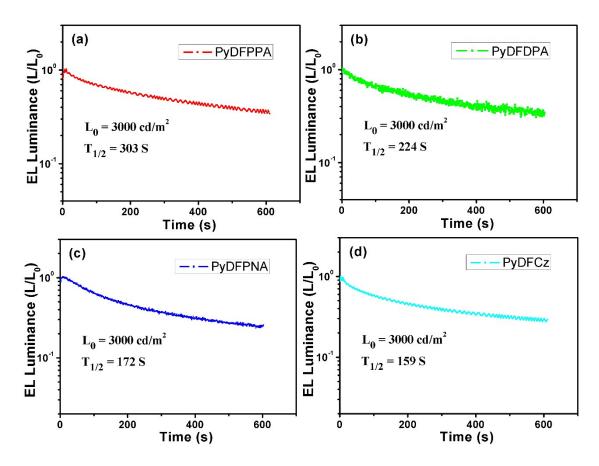


Fig. S3. EL efficiency versus luminance curves of the green, orange (a), and blue (b) OLEDs.



**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.