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Electronic Supplimentary Information

Twisted phenanthroimidazole based molecule with high triplet energy as host material for high efficiency phosphorescent OLEDs

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Fig. S1 Cyclic voltammogram curves of NPB, TCTA and TPBi measured in CH₂Cl₂ for oxidation and THF for reduction.



Fig. S2 Current efficiencies versus luminance curves of device G1 and G2.

The EQE values were calculated based on the following equations:

$$EQE = \pi \frac{Photo Radiance}{Current Density \times 6.25 \times 10^{18}}$$

Photon Radiance: photo per second per square centimeter per steradian

Current density: amp per square centimeter (amp: coulomb per second, 1 coulomb = 6.25×10^{18} electron)