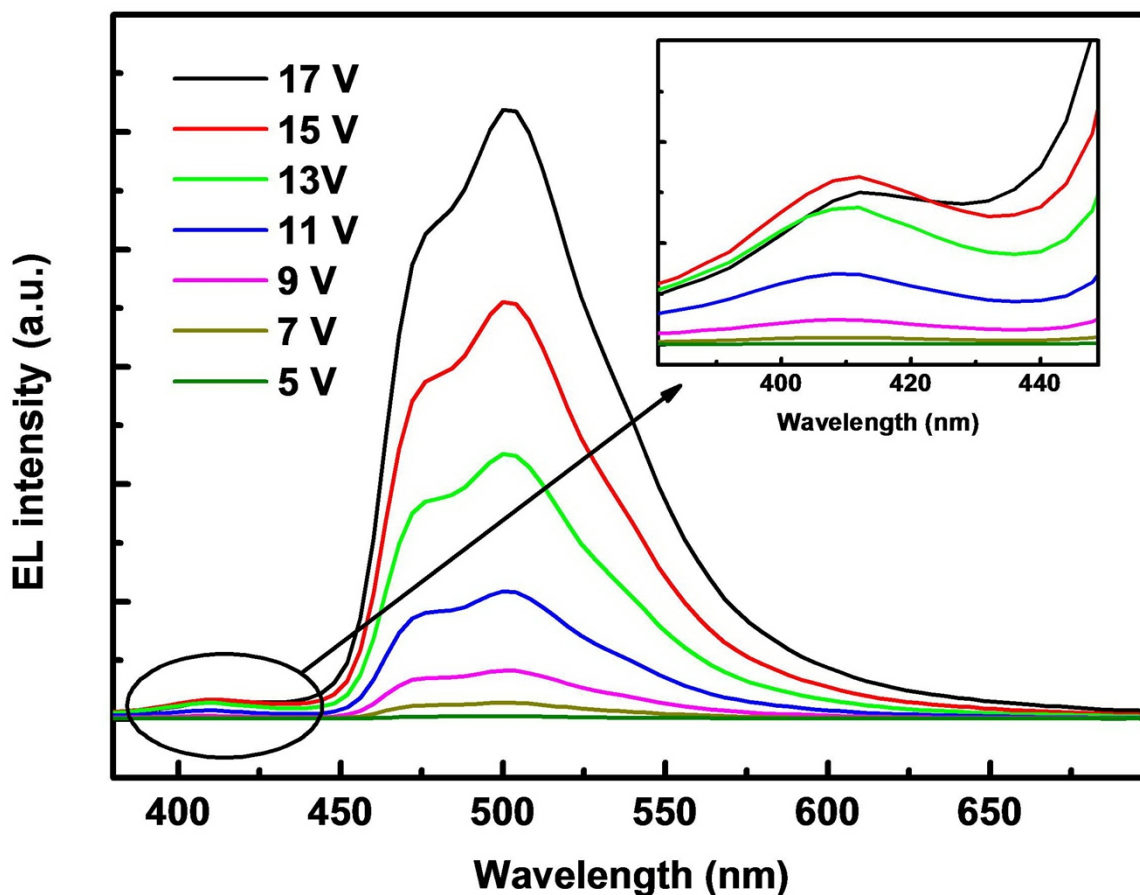


Supporting Information

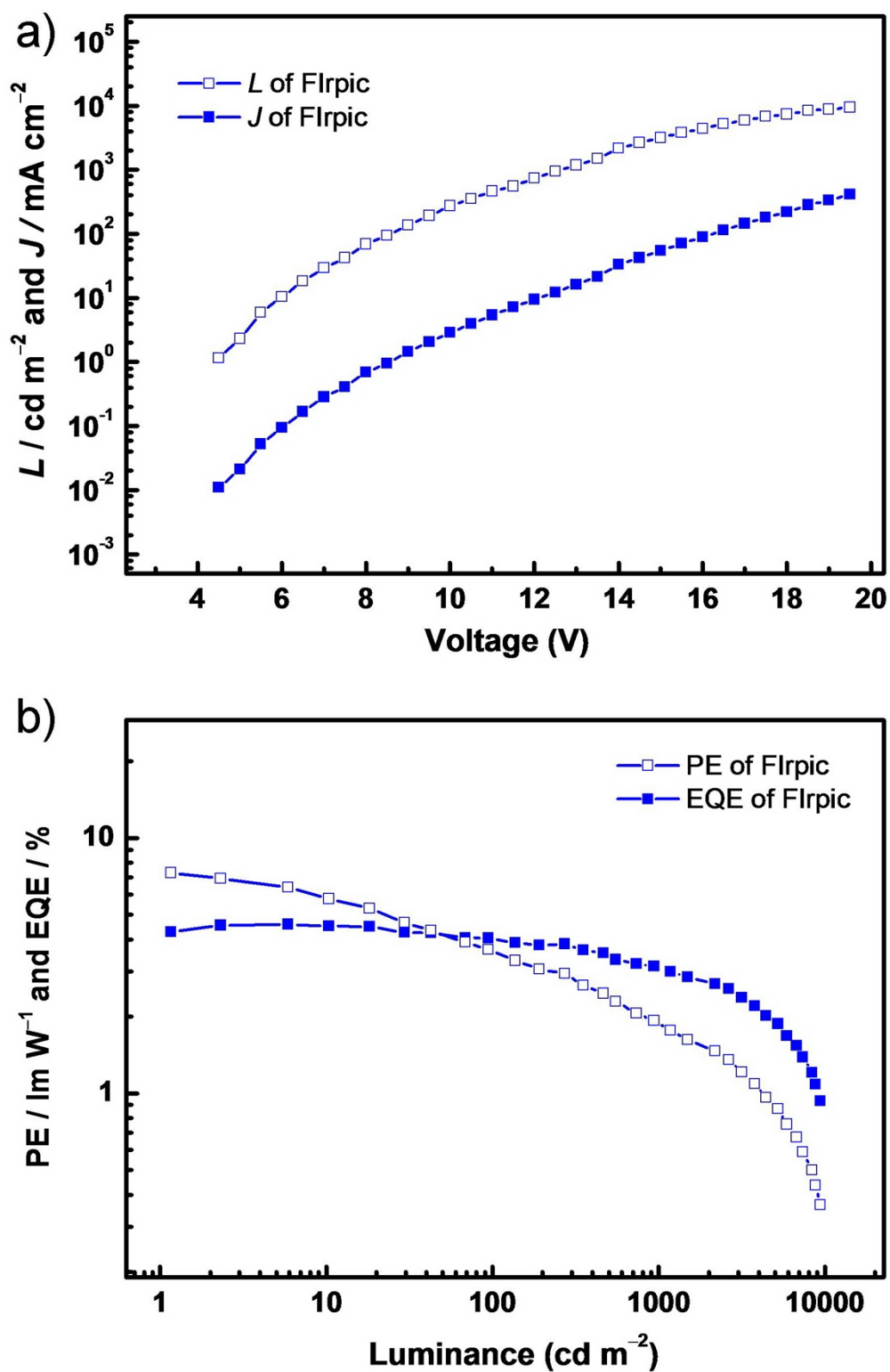
A Novel Tetraphenylsilane-Phenanthroimidazole Hybrid Host Material for Highly Efficient Blue Fluorescent, Green and Red Phosphorescent OLEDs

By Dong Liu, Mingxu Du, Dong Chen, Kaiqi Ye, Zuolun Zhang,* Yu Liu* and Yue Wang

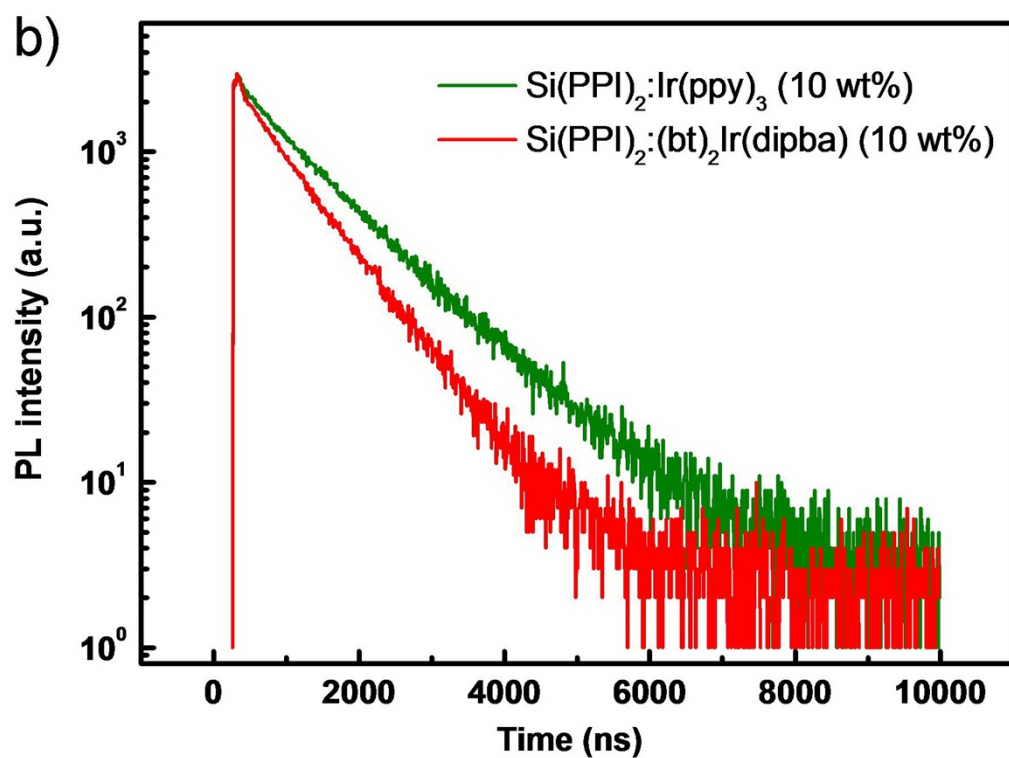
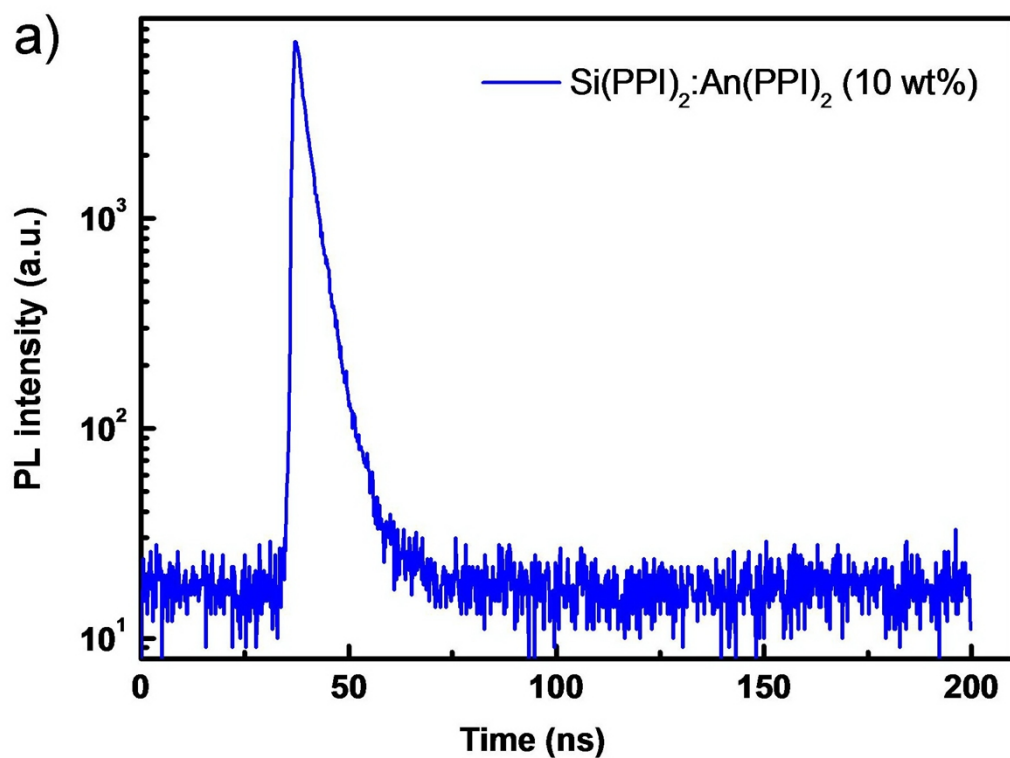
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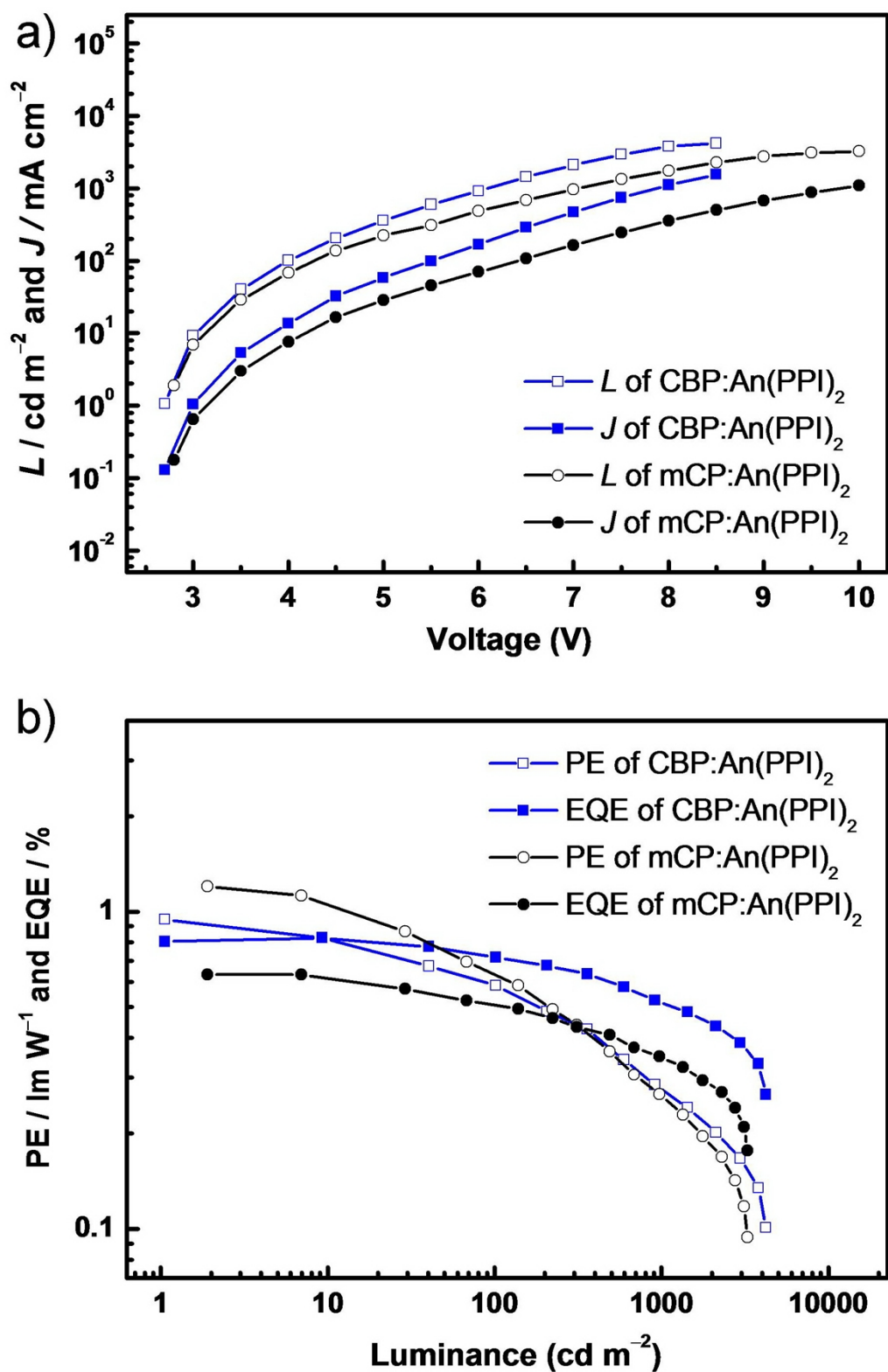
S-Fig. 1. EL spectra of sky-blue device based on the EML of doped Si(PPI)₂:Flrpic detected at different operating voltages. The inset is an enlarged image of the EL curves at the wavelengths from 380 to 450 nm.



SI-Fig. 2. Current density-voltage-luminance (J - V - L) curves (a) and power efficiency (PE)-luminance-external quantum efficiency (EQE) curves (b) of sky-blue device based on the EML of doped Si(PPI)₂:Flrpic.



S-Fig. 3. Transient PL spectra of Si(PPI)_2 films doped with 10 wt% An(PPI)_2 (a), Ir(ppy)_3 and $(\text{bt})_2\text{Ir(dipba)}$ (b).



S-Fig. 4. Current density-voltage-luminance (J - V - L) curves (a) and power efficiency (PE)-luminance-external quantum efficiency (EQE) curves (b) of the reference blue devices based on the EMLs of doped CBP:An(PPI)₂ and mCP:An(PPI)₂.