Supporting Information

Indolocarbazole-Based Hosts for Efficient Red Phosphorescent OLEDs

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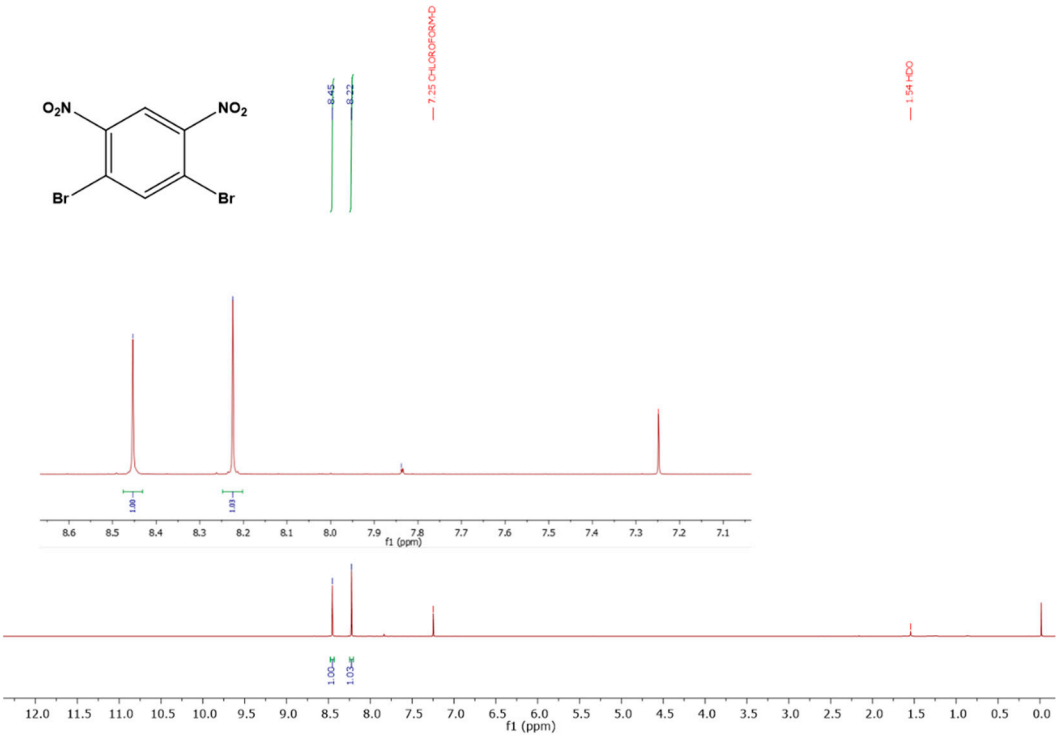

Figure S1. ^{1}H-NMR spectrum of compound (1).

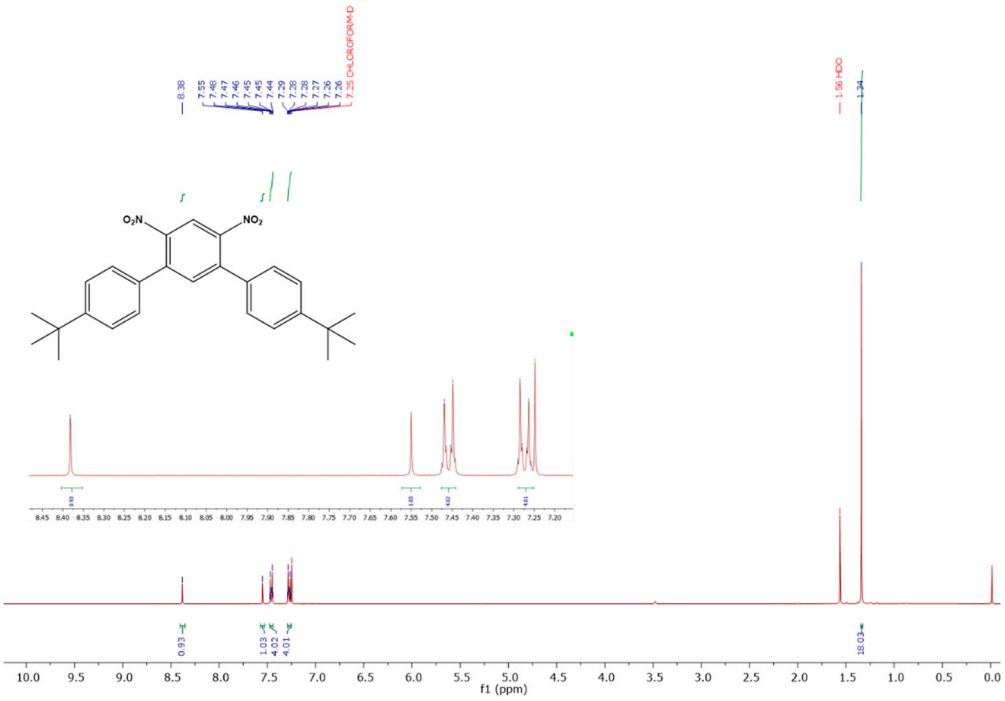

Figure S2. ^{1}H-NMR spectrum of compound (2).

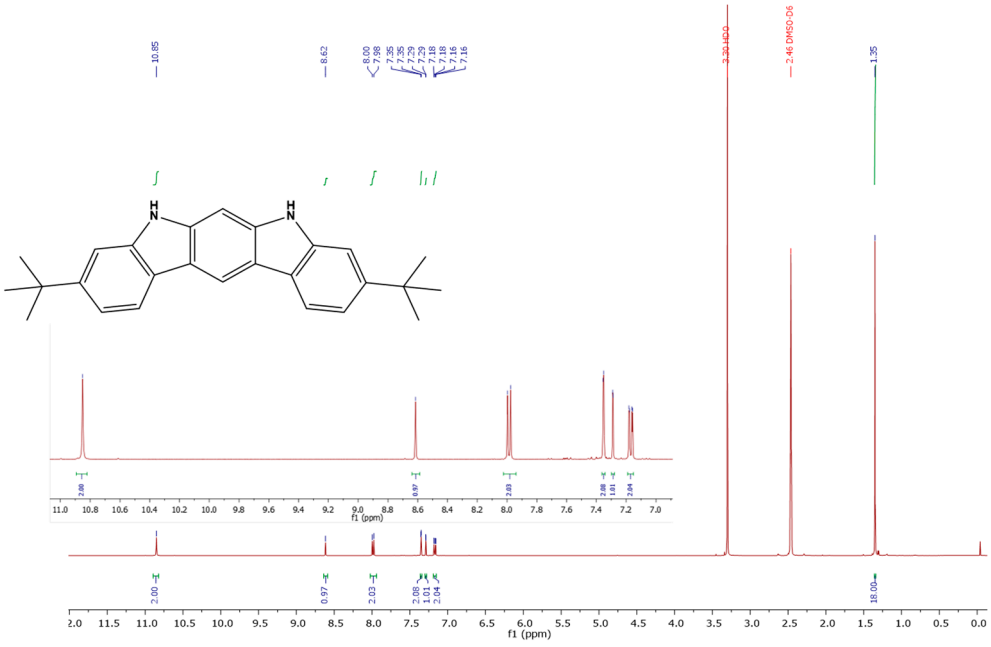

Figure S3. ^{1}H-NMR spectrum of InCz, compound (3).

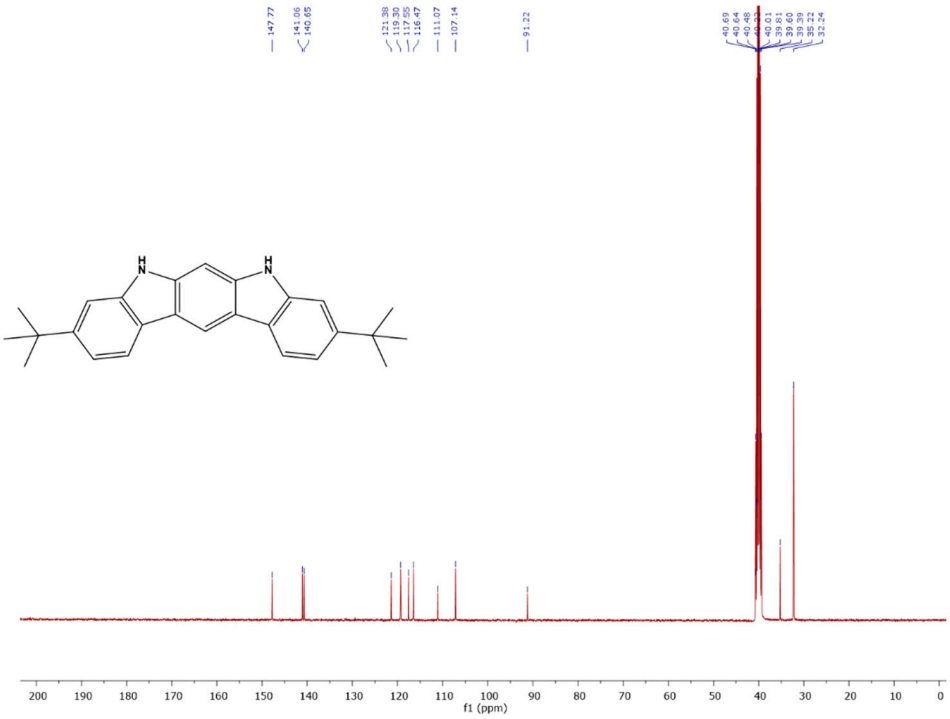

Figure S4. ^{13}C-NMR spectrum of InCz, compound (3).

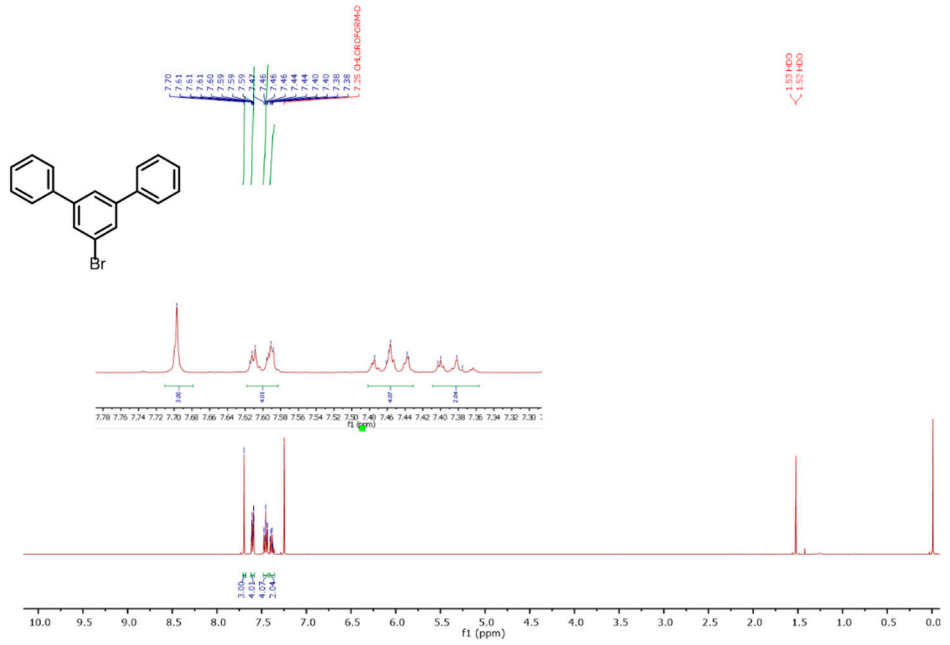

Figure S5. ^{1}H-NMR spectrum of compound (4).

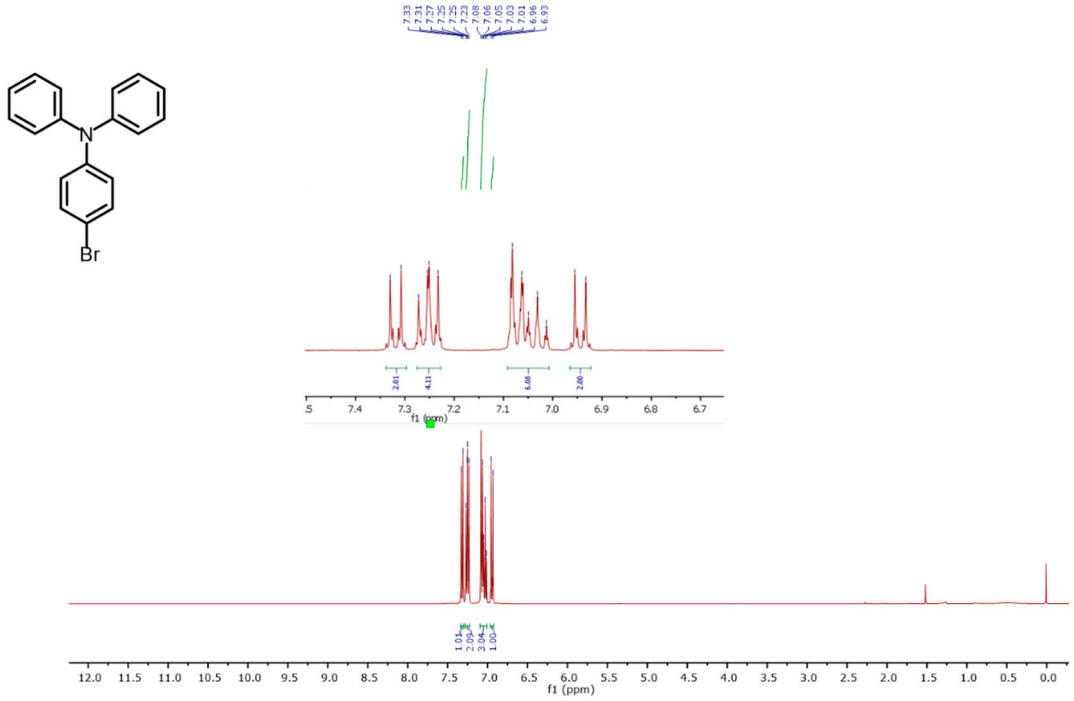

Figure S6. ^{1}H-NMR spectrum of compound (5).

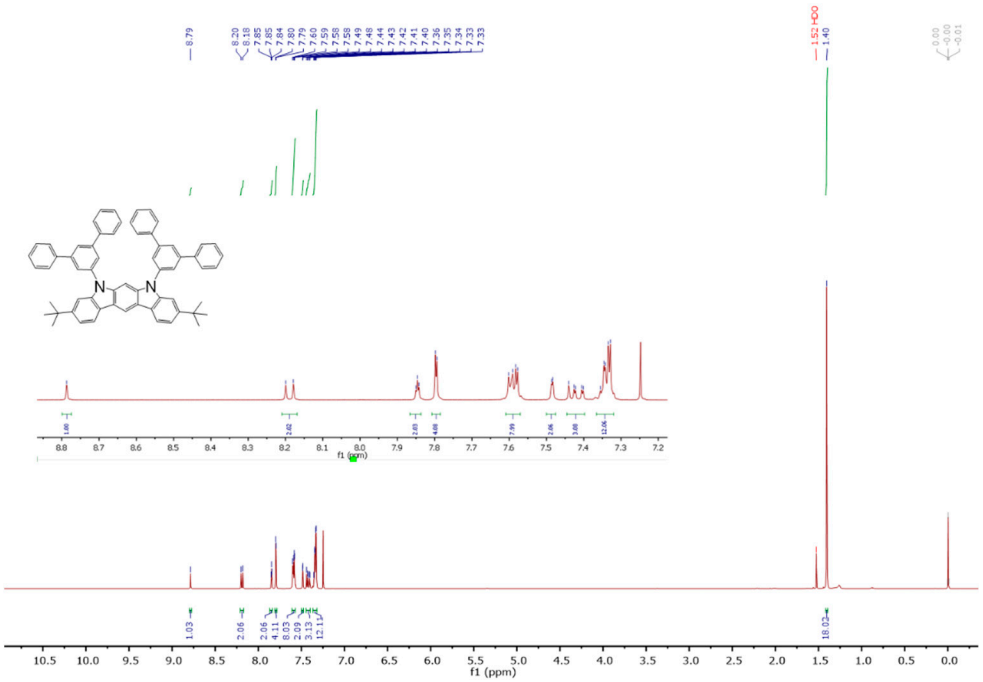

Figure S7. ^{1}H-NMR spectrum of InCz-TP.

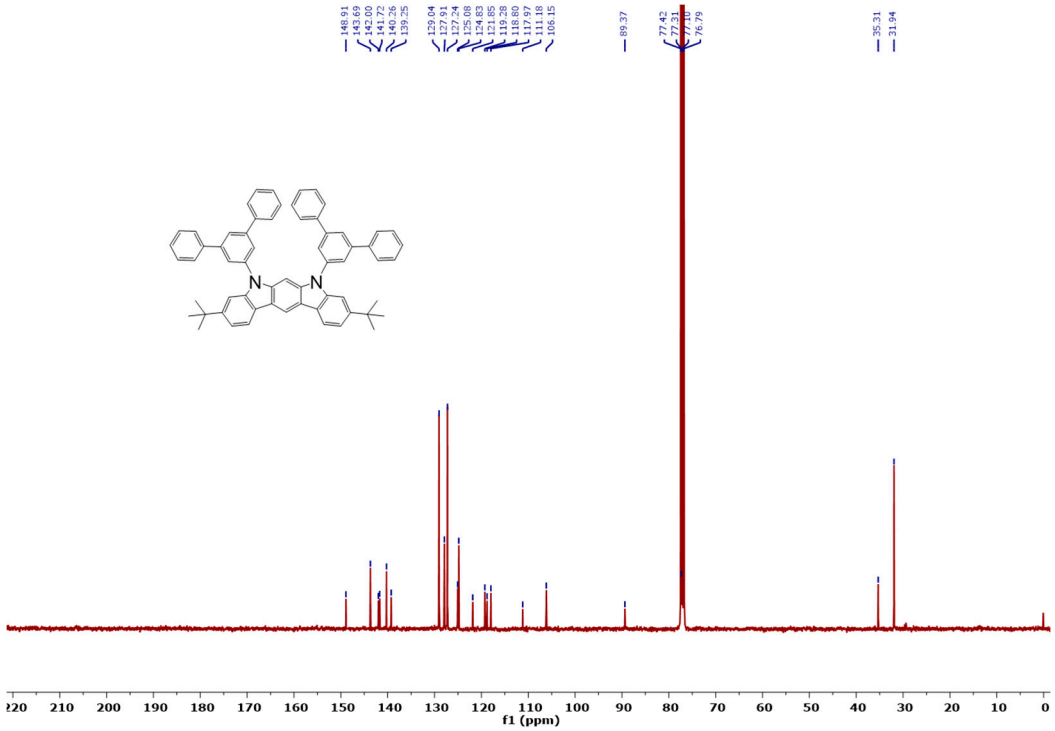

Figure S8. ^{13}C-NMR spectrum of InCz-TP.

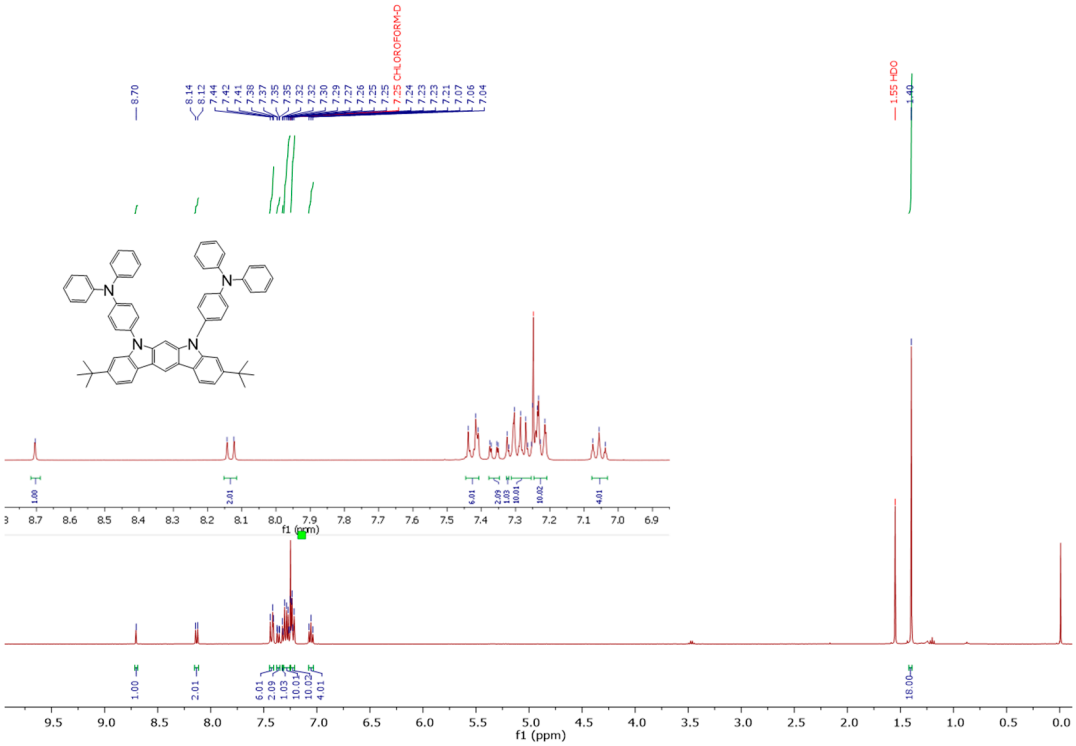

Figure S9. ^{1}H-NMR spectrum of InCz-TPA.

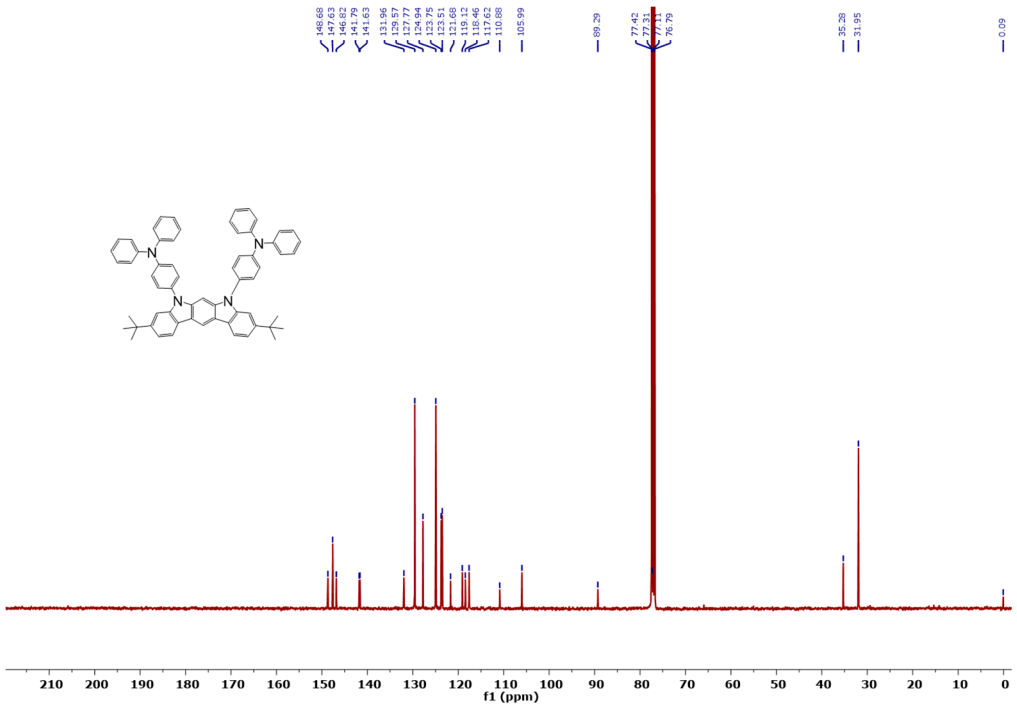

Figure S10. ^{13}C-NMR spectrum of InCz-TPA.

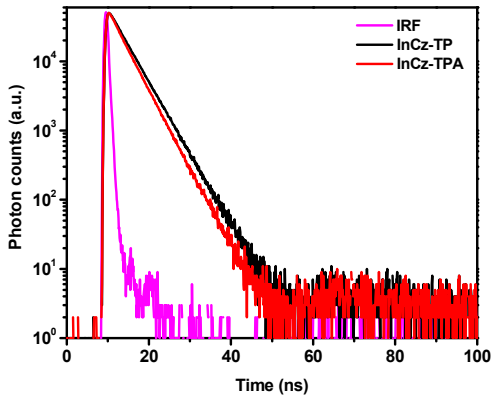

Figure S11. TRPL curves of InCz-TP and InCz-TPA (IRF: instrument response function).

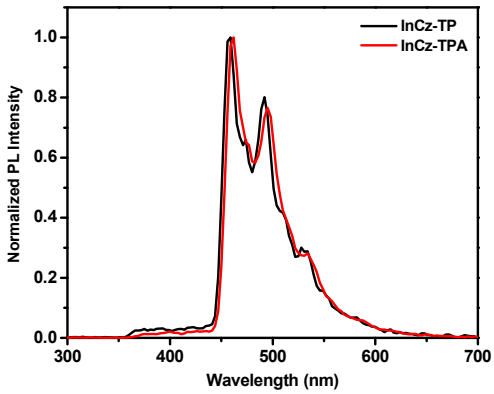

Figure S12. PL spectra of InCz-TP and InCz-TPA at 77K.

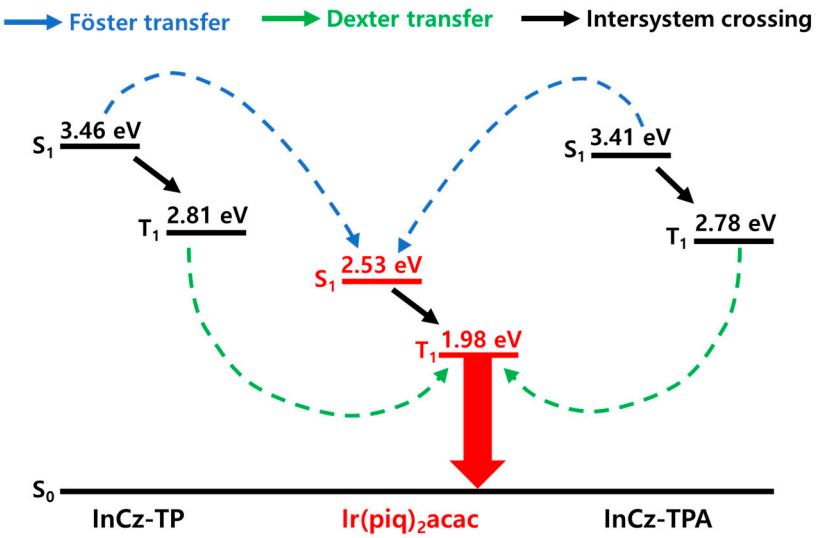

Figure S13. Schematic illustration of energy levels (S_1, T_1, S_0) and energy transfer processes in host–dopant systems.

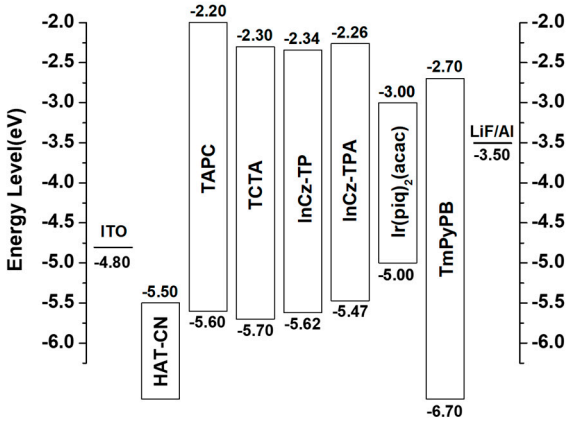

Figure S14. Band diagram of OLED doping device.

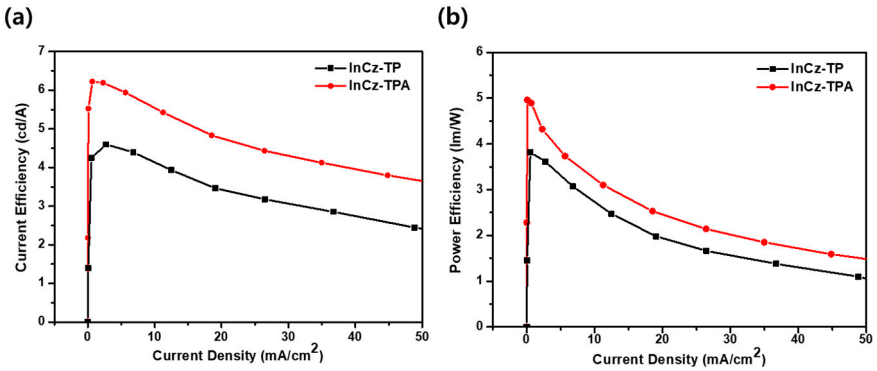

Figure S15. EL performance of doped OLED devices: (a) CE vs. J curves and (b) PE vs. J curves.