A Star-Shaped Conjugated Molecule Featuring a Triazole Core and Diketopyrrolopyrrole Branches is an Efficient Electron-Selective Interlayer for Inverted Polymer Solar Cells

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Figure S1. $^1$H NMR spectrum of compound 3.

Figure S2 $^1$H NMR spectrum of compound 5.

Figure S3 $^1$H NMR spectrum of TDGTPA.
Figure S4 $^{13}$C NMR spectrum of TDGTPA.

Figure S5. CV spectra of TDGTPA measured with 30 runs of scan.
Figure S6. Dark J-V curves of the inverted PSCs with/without a TDGTPA interlayer between ZnO and photoactive layer.

Figure S7. Plots of \((J)^{0.5}\) vs. \(V\) of P3HT/PC\(_{71}\)BM based electron-only devices with/without a TDGTPA interlayer (device architecture: ITO/ZnO/Interlayer/P3HT:PC71BM/Al).
Figure S8. EQE spectra of the P3HT/PC$_{71}$BM based inverted PSCs with/without a TDGTPA interlayer.

Figure S9. DSC thermograms of P3HT and P3HT:PC$_{71}$BM blend (1:1, w/w).

Figure S10. Topographic (a, c) and phase (b, d) images of ZnO/TDGTPA/P3HT:PC$_{71}$BM film (1:1, w/w) measured by AFM before and after 10 days storage in air ambient ((a, b): pristine sample; (c, d): sample after 10 days storage).