Supporting Information

Improved Photocurrent and Efficiency of Non-fullerene Organic Solar Cells Despite Higher Charge Recombination

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Figure S1. Optical constants of the PTZ1:PC$_{71}$BM (a) and PTZ1:ITIC (b) blend layer.

Figure S2. $J^{1/2}$-$V_{\text{eff}}$ ($V_{\text{eff}} = V-V_{\text{bi}}-V_{\text{s}}$) characteristics for electron-only (a) and hole-only (b) devices. The device configuration for electron-only and hole-only devices are ITO/ZnO/PFN/Active layer/Ca/Al and ITO/PEDOT:PSS/PTZ1:ITIC/MoO$_3$/Al, respectively.