ZnO-TiO_2 Core-Shell Nanorod/P3HT Solar Cells

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Supporting Information

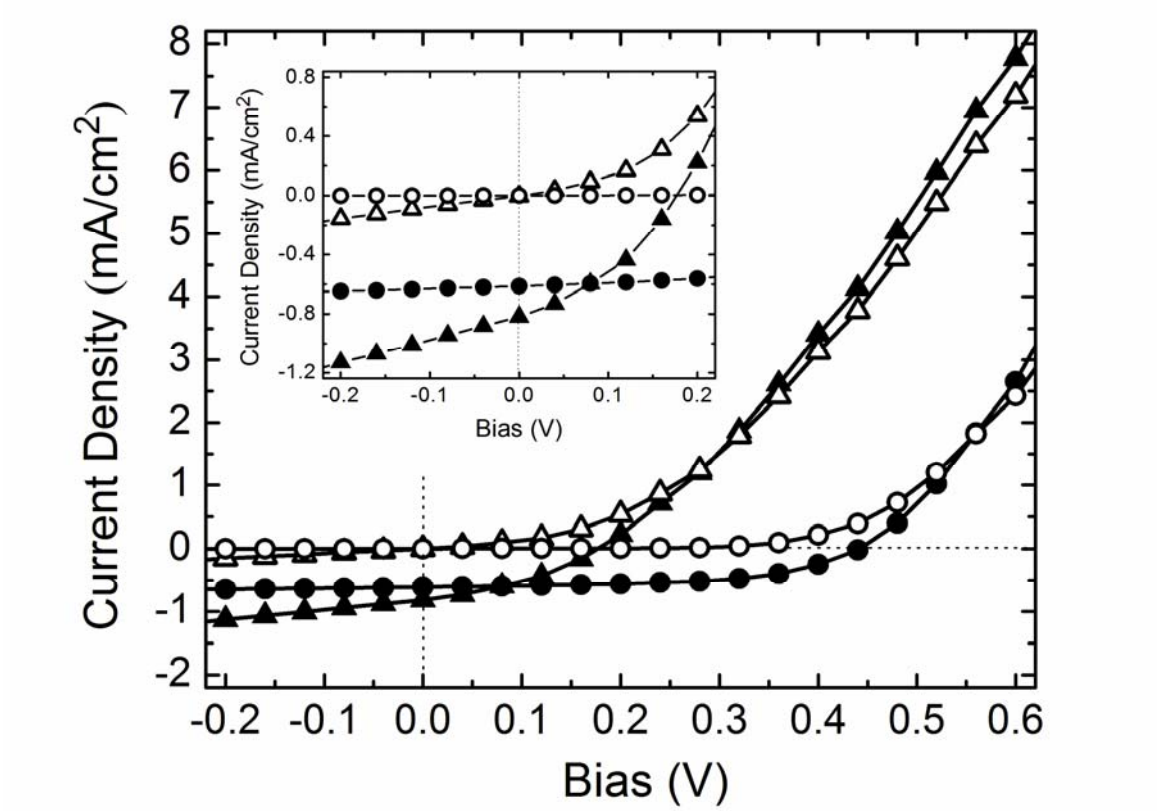

Figure S1. *J-V* plots of a ZnO nanorod/P3HT cell (triangles) and ZnO-TiO_2 nanorod/P3HT cell with a 7-nm shell (circles) in the dark (open symbols) and under 100 mW cm^{-2} AM 1.5 simulated illumination (closed symbols). Inset is the zoomed plot at zero bias. Plots are an average of four devices. All devices were made in parallel and underwent the same processing. The shunt resistances at 1 sun for the ZnO nanorod/P3HT and ZnO-TiO_2 nanorod/P3HT cells are 1.8 x10^4 Ω and 1.3 x 10^5 Ω, respectively. The shunt resistance was calculated by the slope of the *I-V* plot at V=0.[1]

(1) Huynh, W. U.; Dittmer, J. J.; Teclemariam, N.; Milliron, D. J.; Alivisatos, A. P.; Barnham, K. W. J. Physical Review B 2003, 67.