

Supporting information:

Synthesis of Anthracene-Based Donor-Acceptor Copolymers with a Thermally Removable Group for Polymer Solar Cells

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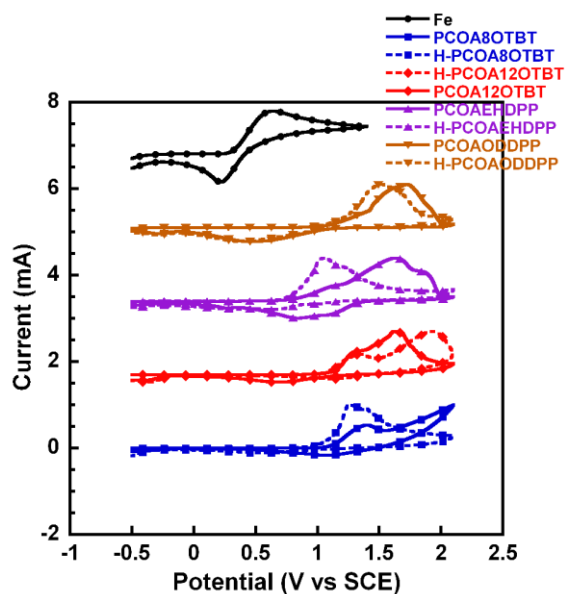


Figure S1. Electrochemical properties of the polymer films with and without annealing at 250 °C for 20 mins. Copolymers before heating (PCOA8OTBT, PCOA12OTBT, PCOAODDPP, PCOAEHDPP) and copolymers after heating at 200 °C for 20 mins (H-PCOA8OTBT, H-PCOA12OTBT, H-PCOAODDPP, H-PCOAEHDPP)

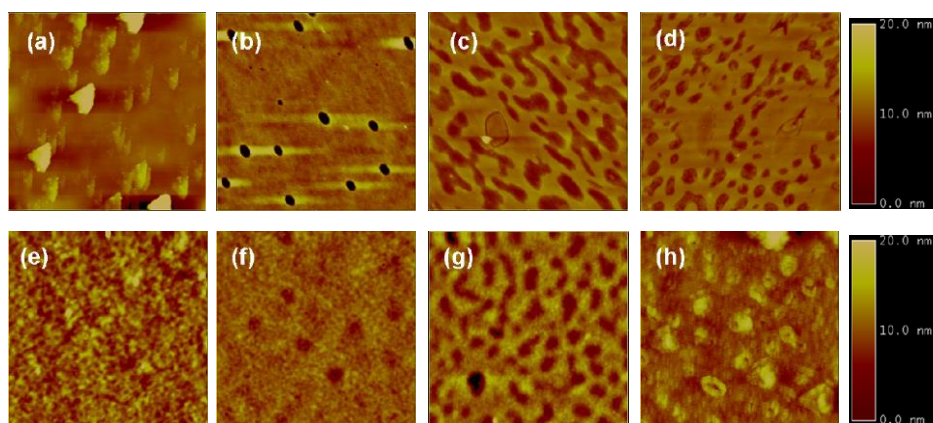


Figure S2. Pure polymer film surface topographic AFM images ($5 \mu\text{m} \times 5 \mu\text{m}$): (a) PCOA8OTBT, (b) PCOA12OTBT, (c) PCOAODPP, (d) PCOAEHDPP without thermal annealing; (e) PCOA8OTBT, (f) PCOA12OTBT, (g) PCOAODPP, (h) PCOAEHDPP with annealing at $250 \text{ }^\circ\text{C}$ for 20 mins.

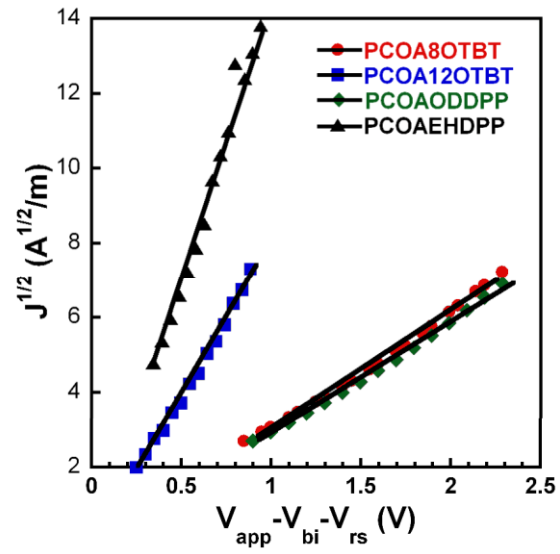


Figure S3. $J^{1/2}$ vs. V characteristics of devices with a configuration of Al/MoO₃/copolymer:

PC₆₁BM (annealed at 250 °C for 20 mins)/MoO₃/Al. The solid lines represent the fitting lines.