Electronic Supporting Information

Nanoscale study of charge extraction in organic solar cells: impact of interfacial molecular configurations

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Figure S1. The induced charge in a pentacene-PEDOT dimer with face-to-face configuration as a function of chain length of PEDOT. Note: A further increase in chain length of PEDOT would not lead to a significant change in the induced charges.



Figure S2. Absorption spectra of (a) pentacene and (b) P3HT films, respectively, grown on the NS-PEDOT and P-PEDOT layers, respectively.



Figure S3. Top panel: AFM image of pentacene film developed on nanogroove PEDOT layer. Bottom panel: Corresponding *I-V* characteristics from c-AFM at different locations.



Figure S4. XRD spectra of P3HT layer deposited on the NS-PEDOT and P-PEDOT layers, respectively.