Role of Photoactive Layer Morphology in High Fill Factor All-Polymer Bulk Heterojunction Solar Cells

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1) J-V characteristics for devices with Sm contacts.

2) Additional AFM images
1) J-V characteristics for devices with Sm contacts

![Graph](image)

**Fig. S1** J-V characteristics for 1:2 w/w P3HT/P(NDI2OD-T2) solar cells from CB and o-DCB (a) and from xylene with 1:1 and 1:2 w/w (b).
2) **Additional AFM images**

**Fig. S2** AFM topography (a and b) and phase-lag (c and d) images of 1:2 w/w P3HT/P(NDI2OD-T2) thin films from CB (a and c) and o-DCB (b and d). All scale bars are 1 μm.
Fig. S3  AFM topography (a and c) and phase-lag (b and d) images of 1:1 (a and b) and 1:2 (c and d) w/w P3HT/P(NDI2OD-T2) thin films spin-coated from xylene. All scale bars are 1 μm.