

Supporting Information

Flexible organic/inorganic heterojunction transistors with low operating voltage

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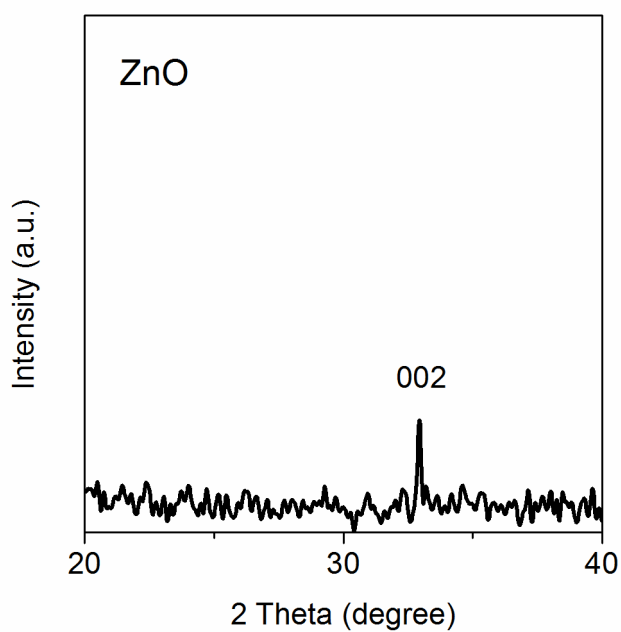


Fig. S1. XRD pattern of ZnO film.

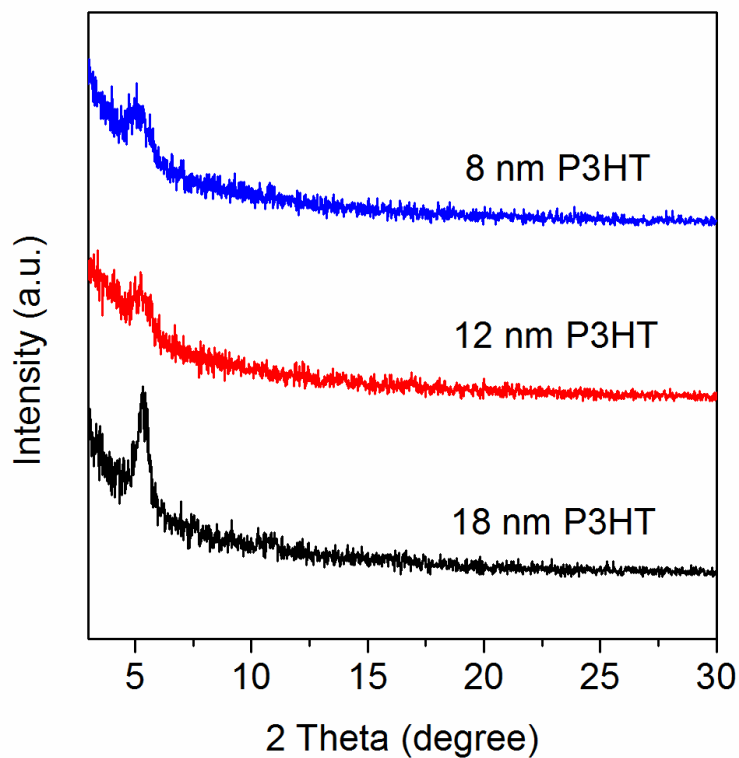


Fig. S2. XRD patterns of different thicknesses of P3HT on ZnO.

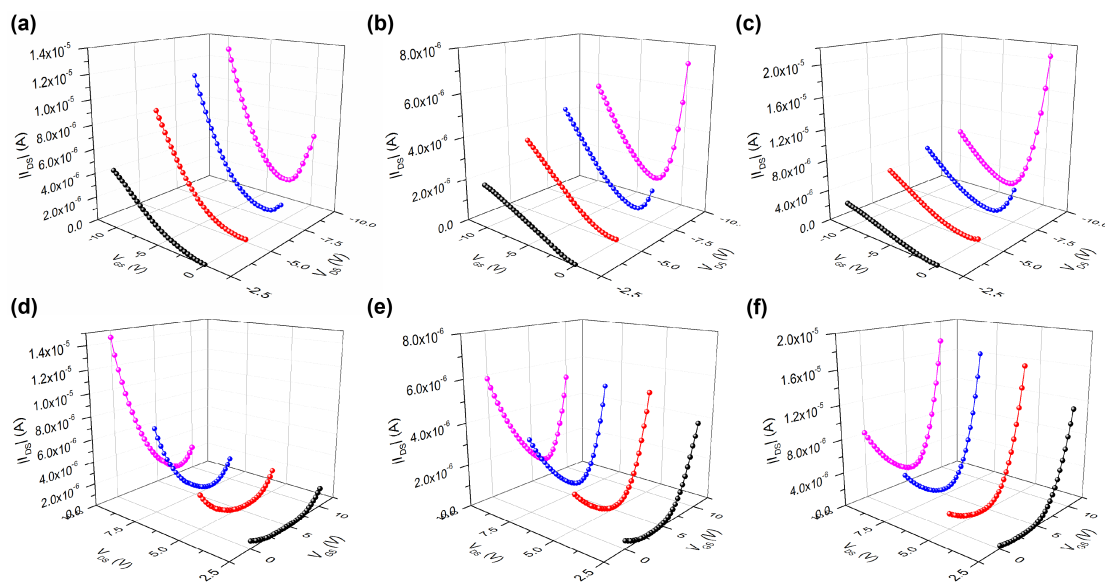


Fig. S3. Transfer characteristics of the ambipolar transistors with (a) 18 nm (b) 12 nm and (c) 8 nm P3HT in hole enhancement mode at various V_{DS} . Transfer characteristics of the ambipolar transistors with (d) 18 nm (e) 12 nm and (f) 8 nm P3HT in electron enhancement mode at various V_{DS} .

Table S1. Characteristics of the ambipolar transistors with various thicknesses of P3HT: roughness of P3HT, threshold voltage in hole-enhancement mode and threshold voltage in electron-enhancement mode.

	8 nm P3HT	12 nm P3HT	18 nm P3HT
Roughness (R_{rms})	0.59 nm	0.76 nm	1.17 nm
Threshold voltage (hole-enhancement mode)	-3.8	-3.1	-2.8 V
Threshold voltage (electron-enhancement mode)	5.8 V	6.9 V	7.9 V