

Fig. S1 Transfer characteristic curves (I_{ds} vs. V_{gs} , and $I_{ds}^{1/2}$ vs. V_{gs}) of the C₁₀-BTBT TFT with a KPI gate insulator.

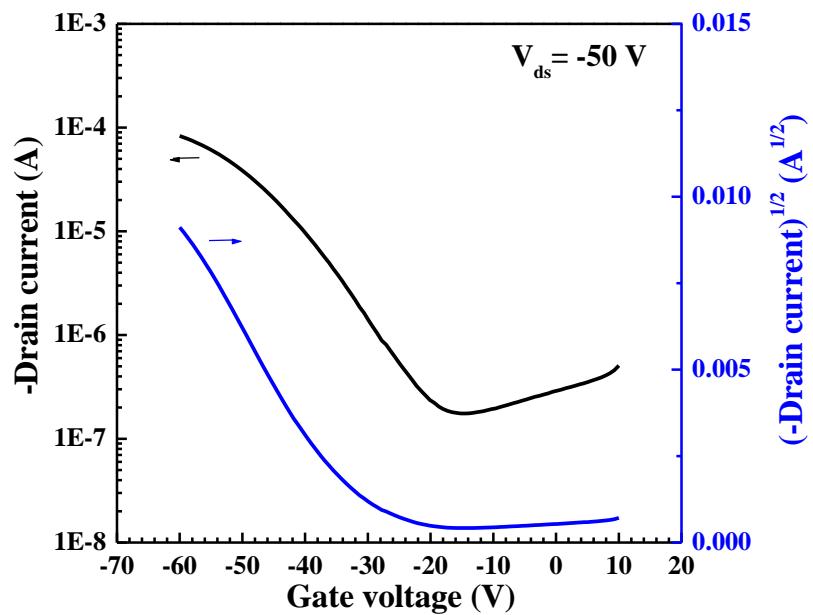


Table S1 Electrical characteristics of the C₁₀-BTBT TFTs with KPI and KPI-C₁₈ gate insulators

Gate insulator	Performance parameter [$L/W = 50/3000$] ^a				
	Mobility (cm ² /V·s)	I_{on}/I_{off}	I_{off} (A)	S-slope (V/Dec)	V_{th} (V)
KPI	0.34	4.7×10^2	-1.7×10^{-7}	11.6	-30.9
KPI-C ₁₈	0.56	1.3×10^5	-3.1×10^{-10}	4.6	-44.0

^a Ratio of channel length to width.

Fig. S2 (a) AFM image and (b) the height profile of the F₄TCNQ-doped C₁₀-BTBT layer on KPI-C₁₈. The height profile is given for the black line.

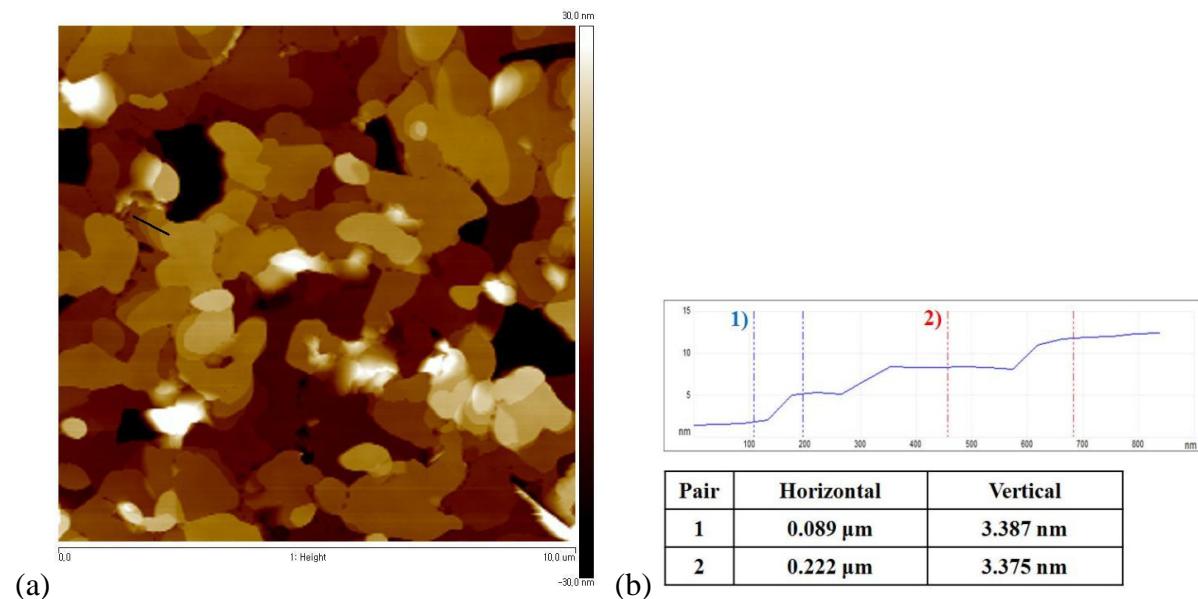


Fig. S3 AFM images of the C₁₀-BTBT layer on KPI.

