Supporting information

Polyelectrolyte Interlayer for Ultra-Sensitive Organic Transistor Humidity Sensors

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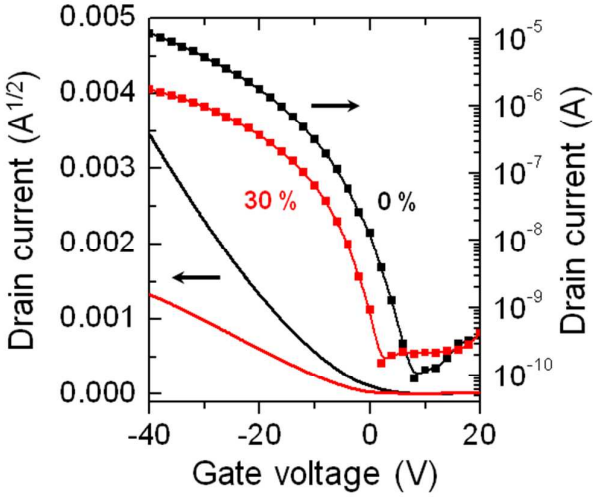

Figure S1. Transfer characteristics of a reference pentacene FET sensor at relative humidty levels of 0 and 30% (V_D = –40 V).

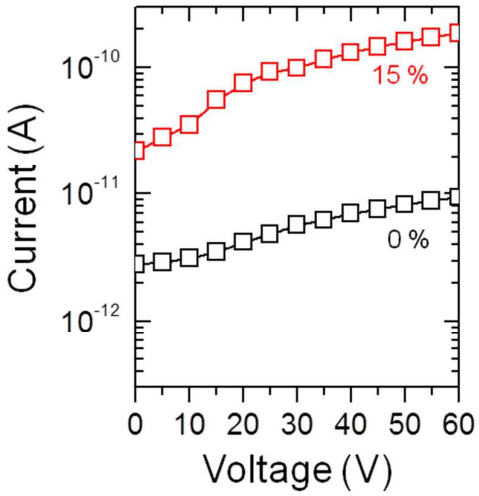

Figure S2. *I-V* characteristics of poly(METAC-*co*-TSPM) thin film at relative humidity of 0 and 15 %.

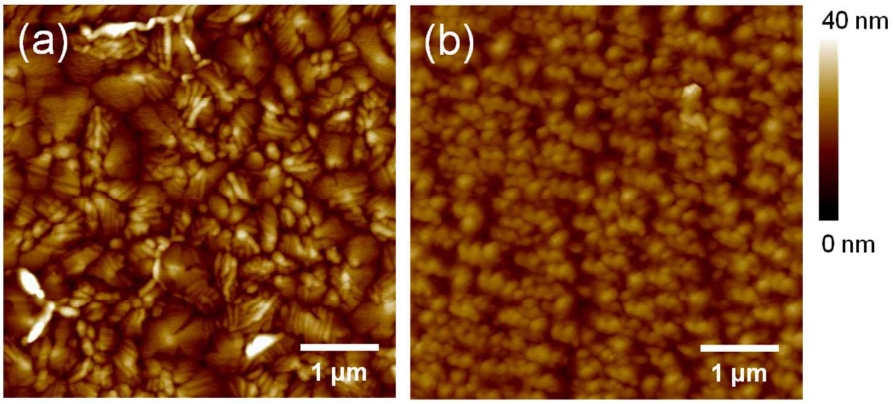

Figure S3. AFM images of 50-nm-thick pentacene on (a) a pristine poly(METAC-*co*-TSPM) layer and (b) a poly(METAC-*co*-TSPM) layer treated with photoresist.

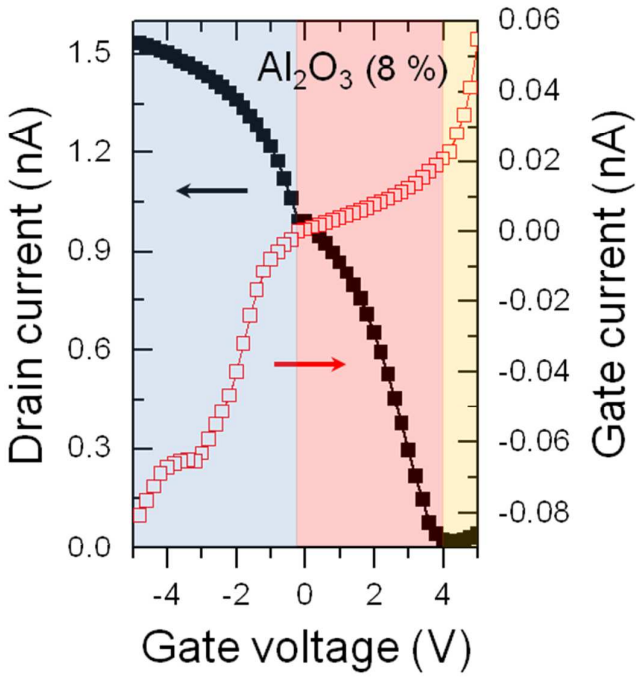

Figure S4. A representative transfer characteristic with I_G (V_D = –5 V) of the low voltage flexible sensors on Al_2O_3

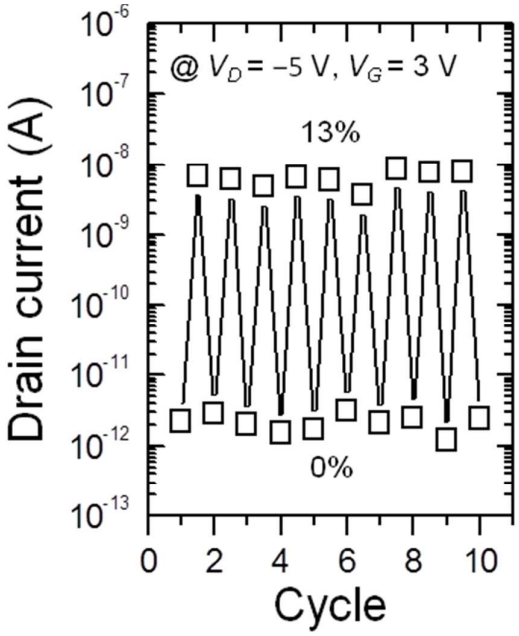

Figure S5. Plot of I_D for flexible sensors at V_G = 3 V and V_D = –5 V as a function of the switching cycle.