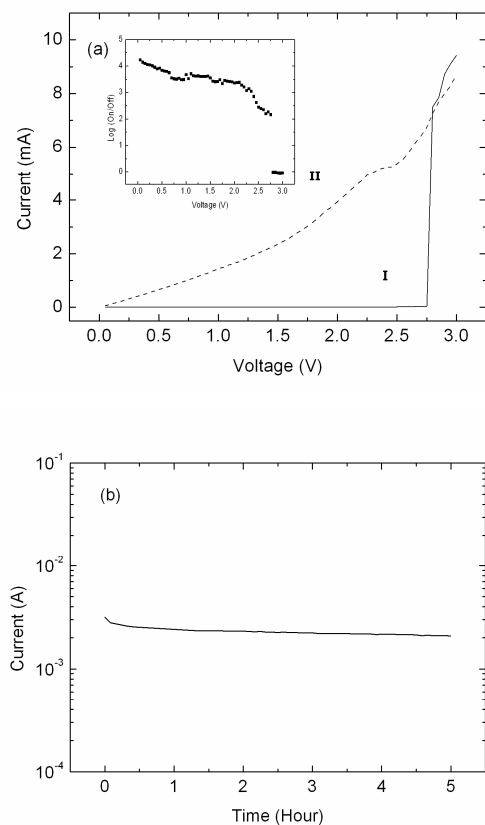


**Supporting Information:**



**Fig. S1** (a) The macroscopic  $I$ - $V$  characteristics of (ITO/CPMAB/Au) by the first scan (curve I, 'Off' state) and the second scan (curve II, 'On' state) with the active area of  $10 \times 10 \text{ mm}^2$ . The bias was applied to the Au electrode. The threshold voltage is 2.75 V. Insert shows the logarithm of the 'On' and 'Off' current ratio as a function of the applied voltage. (b) Long-time response of the 'On' state under the electric field of 1.80 V.