

Cooperative Polymer Gate Dielectrics in Organic Thin-Film Transistors

박세영, 이홍희*
서울대학교
(honghlee@snu.ac.kr*)

A concept is introduced in which two polymer dielectrics are made cooperative in acting as the gate insulator for organic thin-film transistors (OTFTs). The bilayer insulator consists of a thin polymer dielectric in contact with the active layer that can induce good electrical properties and a much thicker dielectric with good dielectric properties. These dielectrics are cooperative in combining the best each can offer for a high mobility and a negligible hysteresis.