Supplementary material

Controlling carriers trapping and relaxation with a dipole field in an organic field-effect device

Yu-Fu Wang, Min-Ruei Tsai, Po-Yang Wang, Chin-Yang Lin, Horng-Long Cheng, Fu-Ching Tang, Steve Lien-Chung Hsu, Jim Hsu and Wei-Yang Chou*

a Department of Photonics, Advanced Optoelectronic Technology Centre, National Cheng Kung University, Tainan 701, Taiwan. E-mail: weiyang@mail.ncku.edu.tw; Fax: +886 6 2095040; Tel: +886 6 2757575 ext.63912
b Polyimide Department, Daxin Materials Corporation, Taichung 407, Taiwan.
c Department of Physics, National Cheng Kung University, Tainan 701, Taiwan.
d Department of Materials Science and Engineering, National Cheng Kung University, Tainan 701, Taiwan
Figure S1. The derivative of the heat flux with respect to temperature obtained from the temperature-dependent DSC curves of native PI and PCPI/PI mixed polymers with different weight ratios of PCPIs: (a) 0, (b) 6%, (c) 10%, and (d) 20%.
Figure S2. The output and transfer characteristics of n-type OFET-based memory devices with pure PCPI electret.