Supporting Information

Approaching high charge carrier mobility by alkyling both donor and acceptor units at optimized position in conjugated polymers

Dong Gao,†ab Kui Tian,†ab Weifeng Zhang,†a Jianyao Huang, a Zhihui Chen,ab Zupan Mao,ab and Gui Yu*ab

a Beijing National Laboratory for Molecular Sciences, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, P. R. China
b University of Chinese Academy of Sciences, Beijing 100049, P. R. China

Fig. S1. GPC chromatograms of PD-n-DTTE-7.

Fig. S2. TGA of PD-n-DTTE-7.
Fig. S3. Surface plots of HOMO (top) and LUMO (bottom) of the unalkylated trimers (left) and alkylated trimers (right).

Fig. S4. Cyclic voltammogram of PD-n-DTTE-7 thin films.

Fig. S5. OFET performances without annealing (25 °C) and with annealing at different temperatures.
$^{1}H$ and $^{13}C$ NMR spectra