Electronic Supplementary Material

Synthesis and photovoltaic properties of new conjugated polymers based on syn- and anti-benzodifuran

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1. Characterization

a) NMR spectra of monomers and polymers

Fig. S1 $^1$H NMR spectrum of compound 1 in CDCl$_3$.

Fig. S2 $^{13}$C NMR spectrum of compound 1 in CDCl$_3$. 
**Fig. S3** $^1$H NMR spectrum of compound 2 in CDCl$_3$.

**Fig. S4** $^{13}$C NMR spectrum of compound 2 in CDCl$_3$. 
Fig. S5 $^1$H NMR spectrum of compound 3 in CDCl$_3$.

Fig. S6 $^{13}$C NMR spectrum of compound 3 in CDCl$_3$. 
**Fig. S7** $^1$H NMR spectrum of *syn-PBDFID* in CDCl$_3$.

**Fig. S8** $^1$H NMR spectrum of *anti-PBDFID* in CDCl$_3$.
b) TGA curves

![TGA graph]

**Fig. S9** The TGA plots of polymers.

c) DSC thermograms

![DSC graph]

**Fig. S10** DSC thermograms during the first heating and cooling scans.
d) Cyclic voltammograms

Fig. S11 Cyclic voltammograms of syn-PBDFID and anti-PBDFID films in acetonitrile/0.1 M [n-Bu₄N][PF₆] with scan rate of 100 mV/s.