

*Supporting Information*

**Trifluoroborate-modification of both pyridine and  
*N*-alkyldiarylamine-based  $\pi$ -conjugated polymer films:  
tuning the electronic communication and the mean  
conjugated length based on two types of nitrogen in the  
conjugated main segments**

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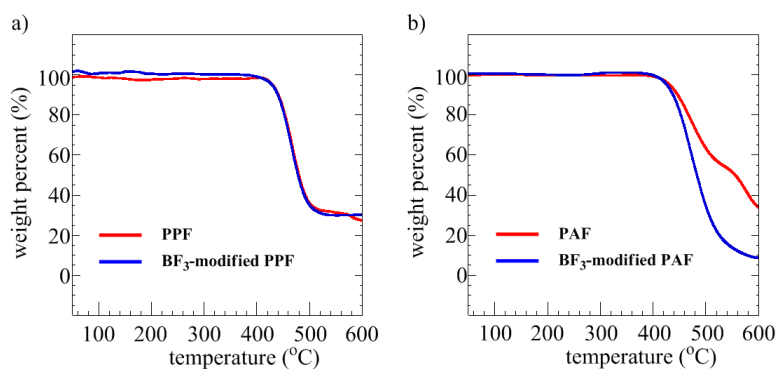


Fig. S1. TGA curve of **PPF** (a) and **PAF** (b) films before and after BF<sub>3</sub>-OEt<sub>2</sub> vapor treatment..

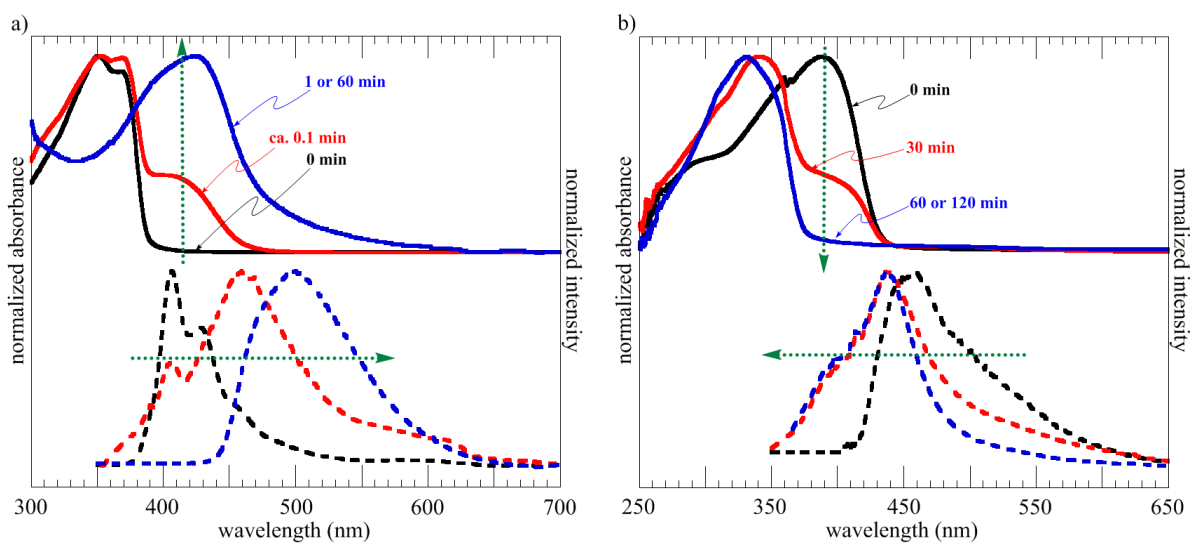


Fig. S2. UV-vis absorption (top) and fluorescence (bottom) spectra of **PPF** (a) and **PAF** (b) films before and after  $\text{BF}_3\text{-OEt}_2$  vapor treatment.