

Manipulation of the band gap and efficiency of a minimalist push-pull molecular donor for organic solar cells

Yue Jiang^{a,b} Clément Cabanetos,^{*b} Magali Allain,^b Ping Liu^a and Jean Roncali^{*b}

Supporting information

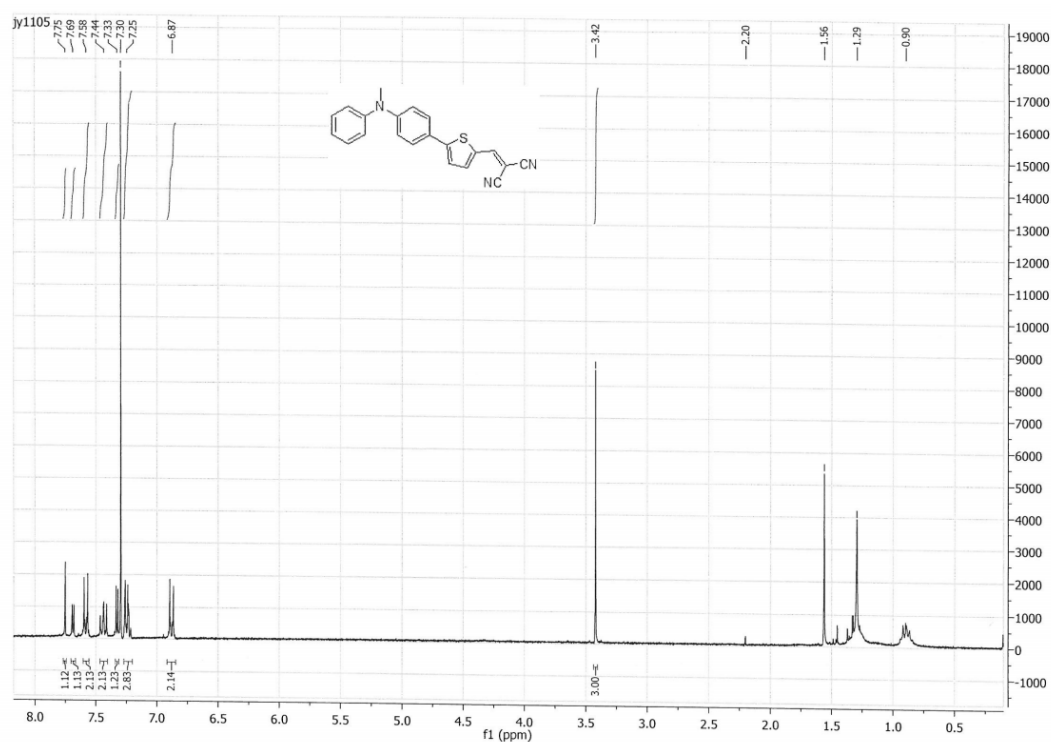


Fig. S1 ¹H NMR spectrum of compound **1**. 300MHz CDCl₃

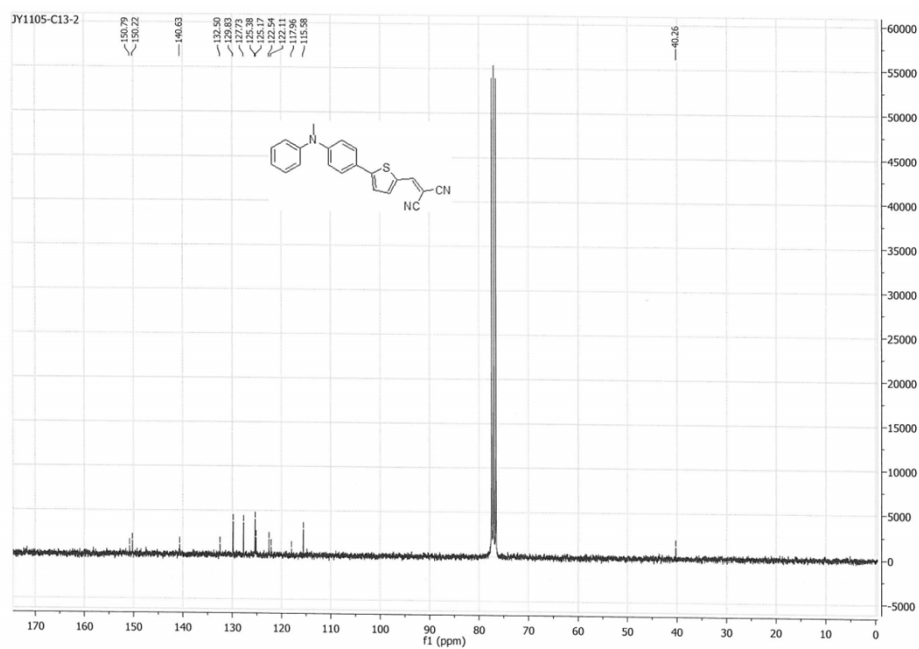


Fig. S2. ^{13}C NMR spectrum of compound **1**. 76 MHz, CDCl_3

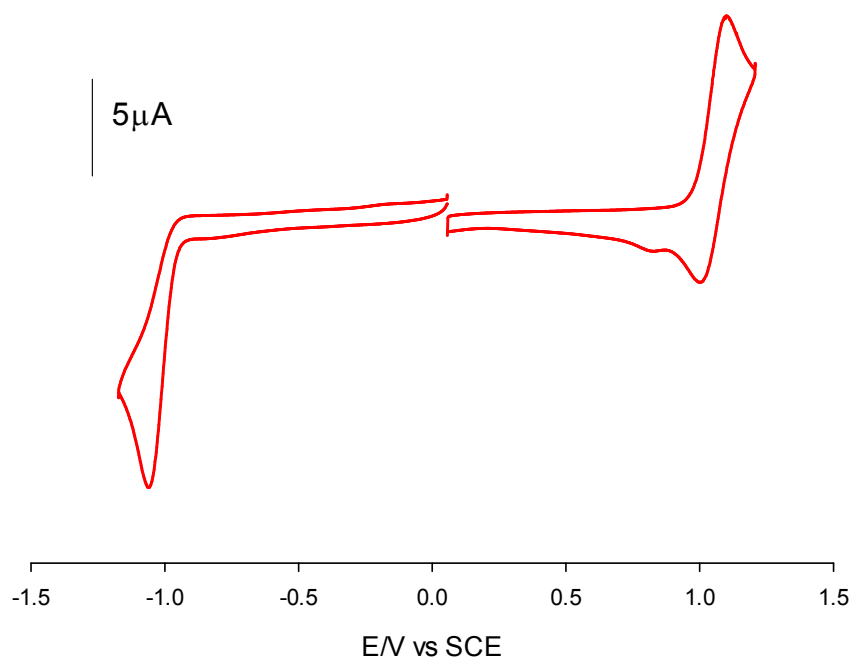


Fig. S 3. Cyclic voltammogram of compound **1**, 1mM in 0.10 M $\text{Bu}_4\text{NPF}_6/\text{CH}_2\text{Cl}_2$, scan rate 100 mVs^{-1} , Pt working electrodes.

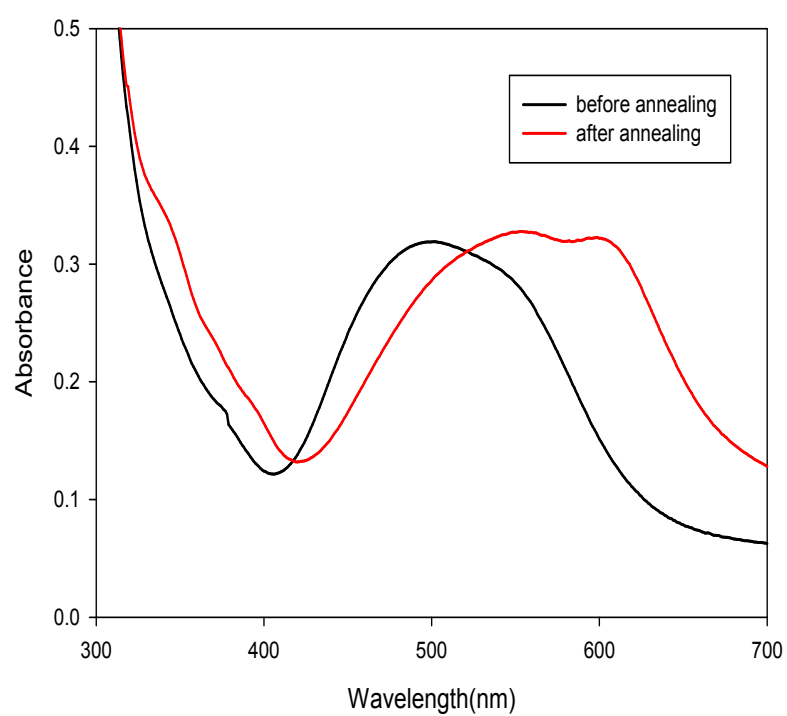


Fig. S4. UV-Vis absorption spectra of a cell ITO/PEDOT:PSS/vacuum deposited $1/C_{60}$. Before (black) and after 10 min thermal annealing at 80°C.

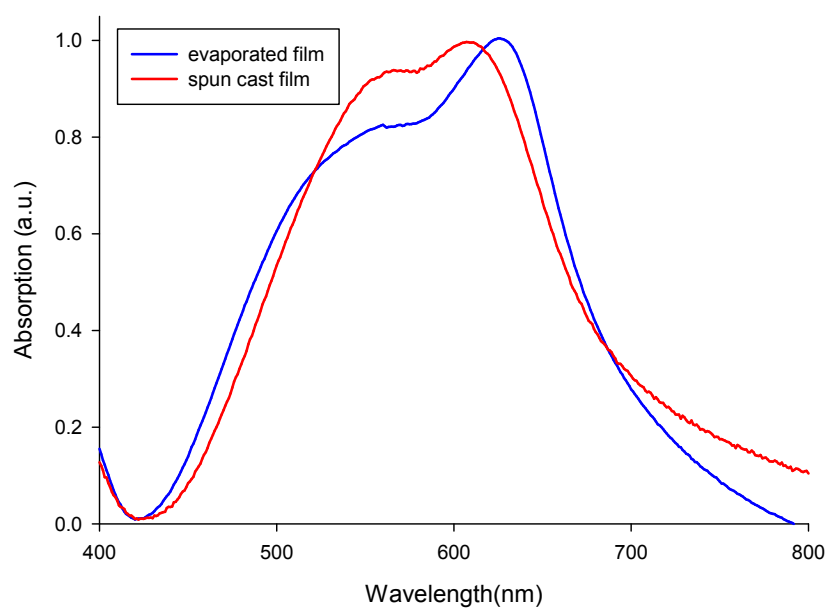


Fig. S5. UV-Vis absorption spectra of spin-cast and vacuum deposited films of compound **1**.

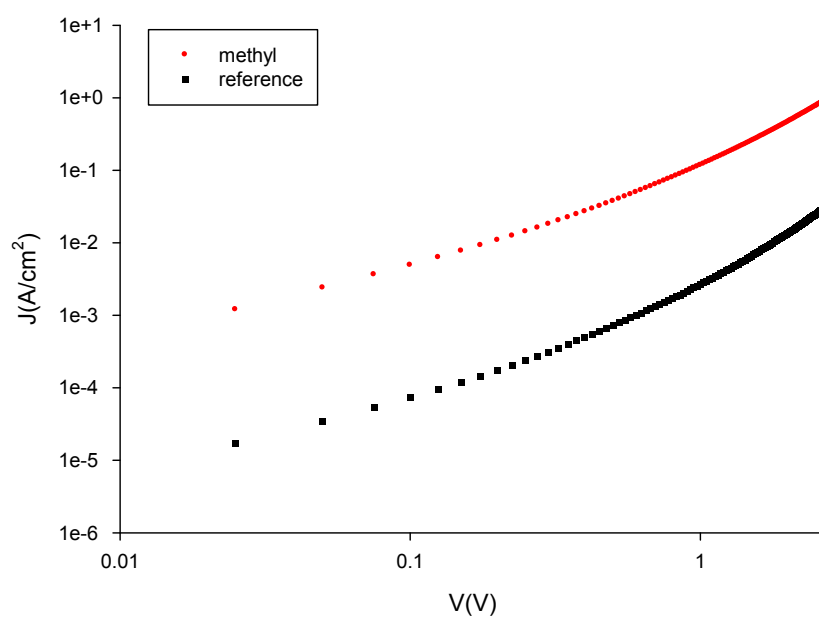


Fig. S6. Current density vs voltage curves for “hole-only” devices PEDOT:PSS/donor/gold. Red: compound **1**, black: compound **2**.