

Supporting Information

Donor-acceptor conjugated polymers based on cyclic imide substituted quinoxaline or dibenzo[*a,c*]phenazine for polymer solar cells

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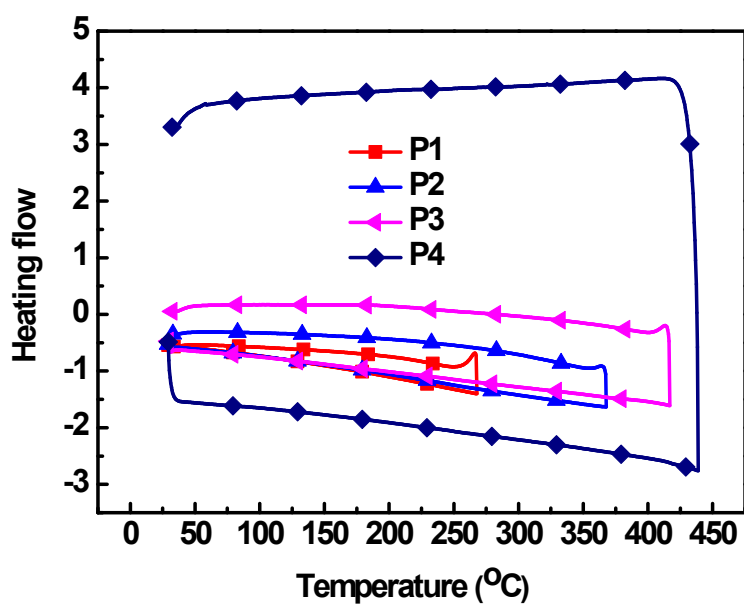


Figure S1. Second heating and cooling DSC traces of polymers with a heating rate of $10\text{ }^{\circ}\text{C min}^{-1}$ and a cooling rate $20\text{ }^{\circ}\text{C min}^{-1}$ under nitrogen.

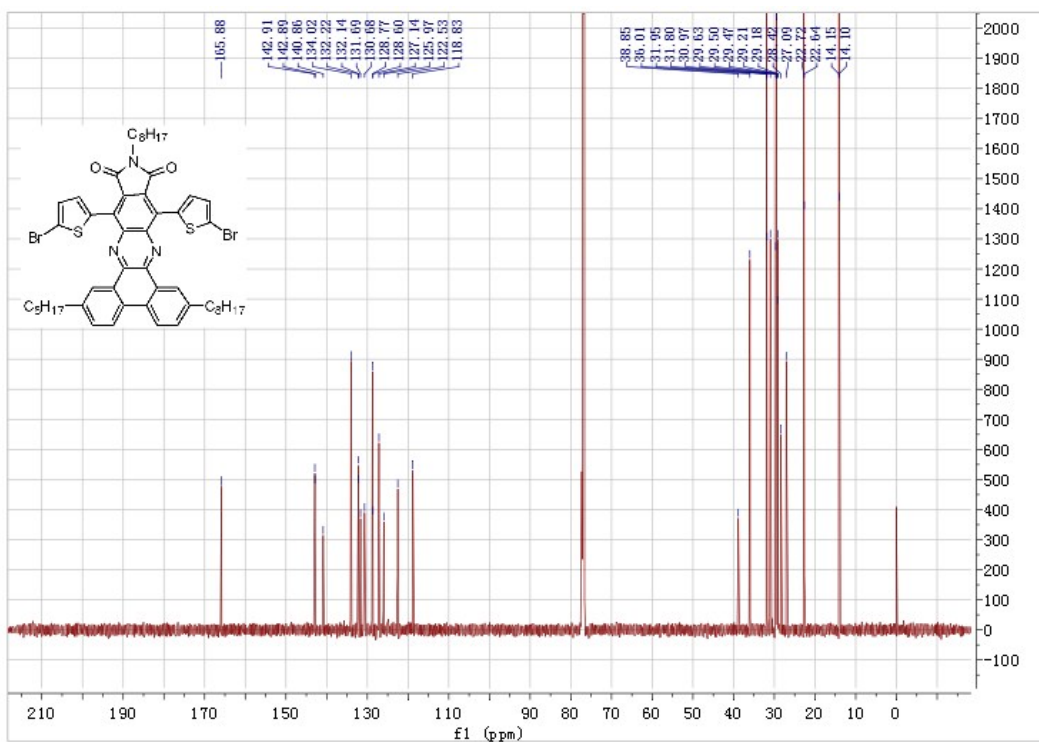
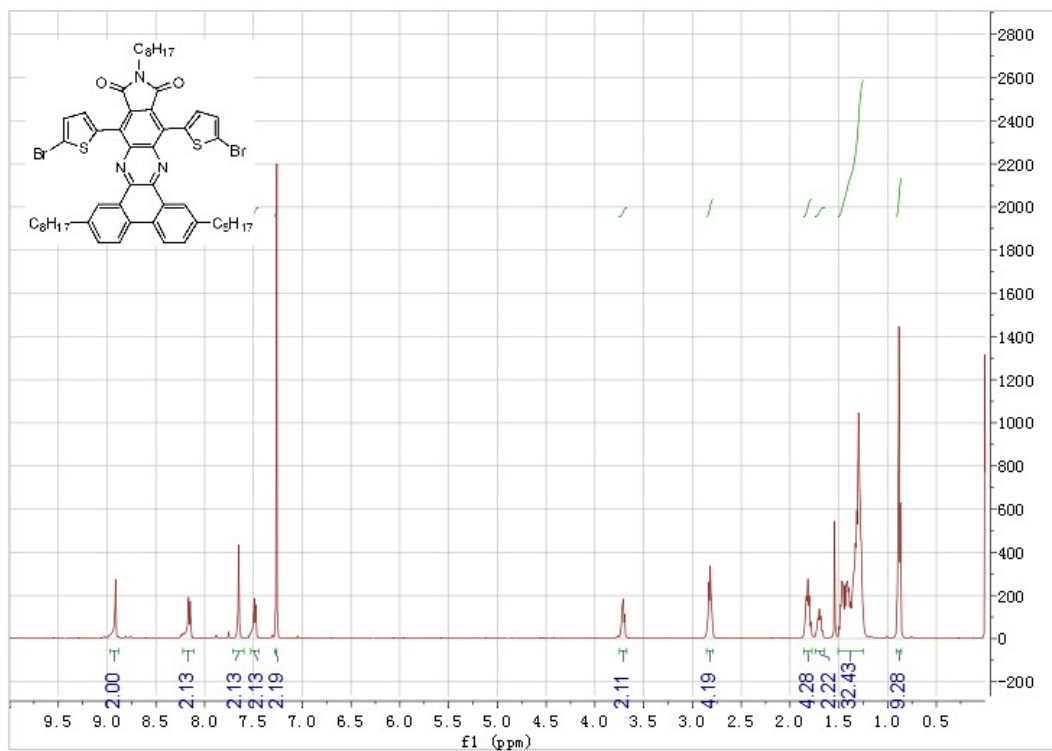


Figure S2. ¹H and ¹³C NMR spectra of Br₂-TBPDI.

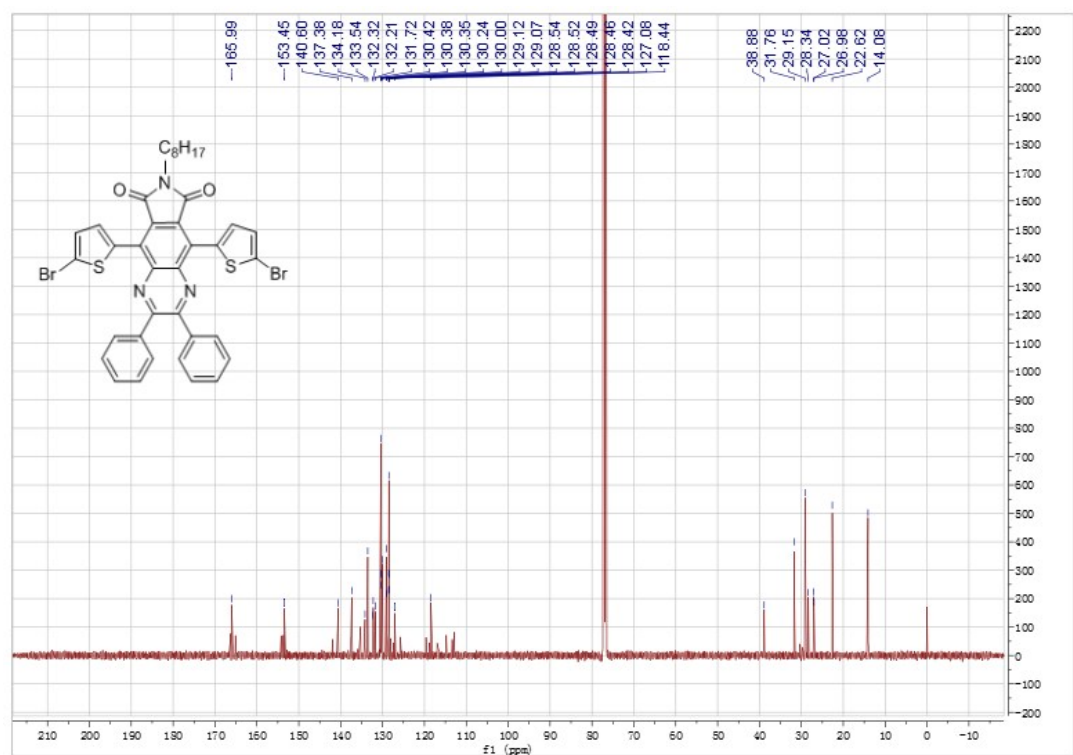
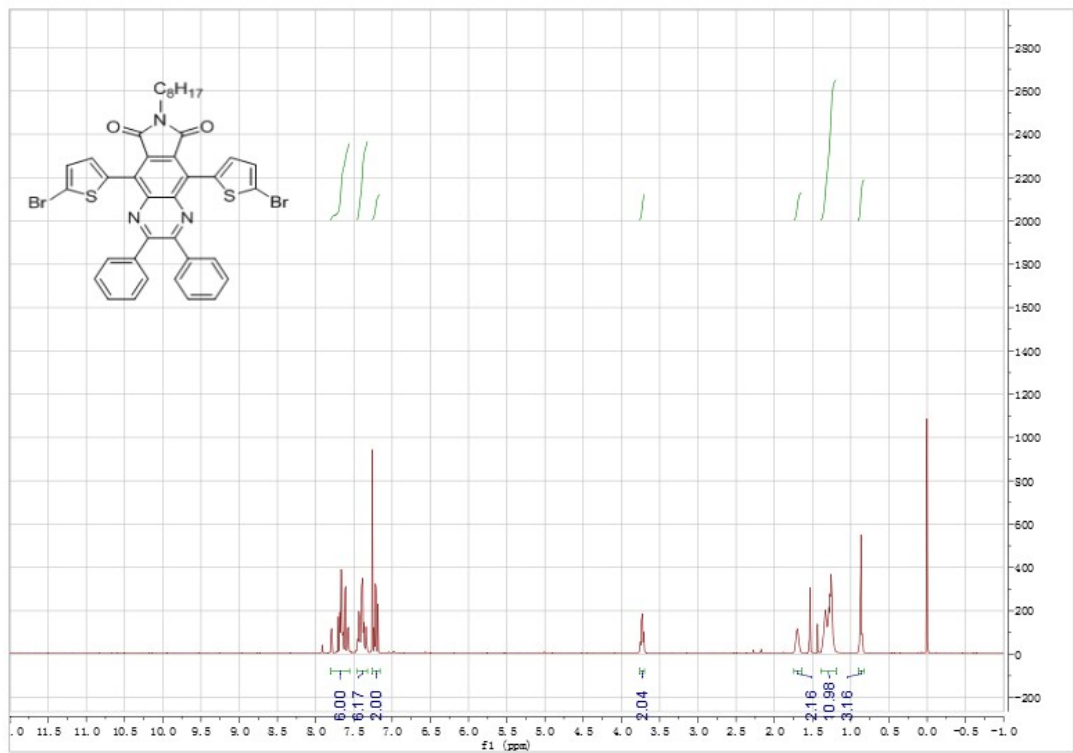


Figure S3. ¹H and ¹³C NMR spectra of Br₂-TPQD.

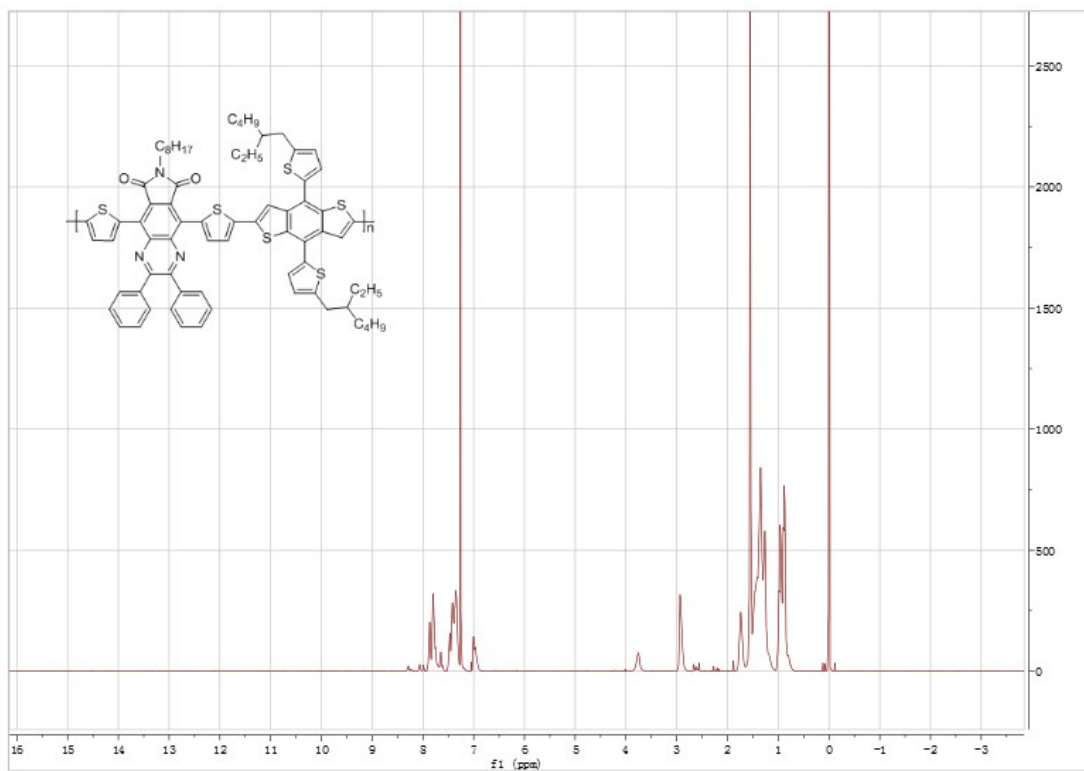


Figure S4. ¹H NMR spectrum of **P1**.

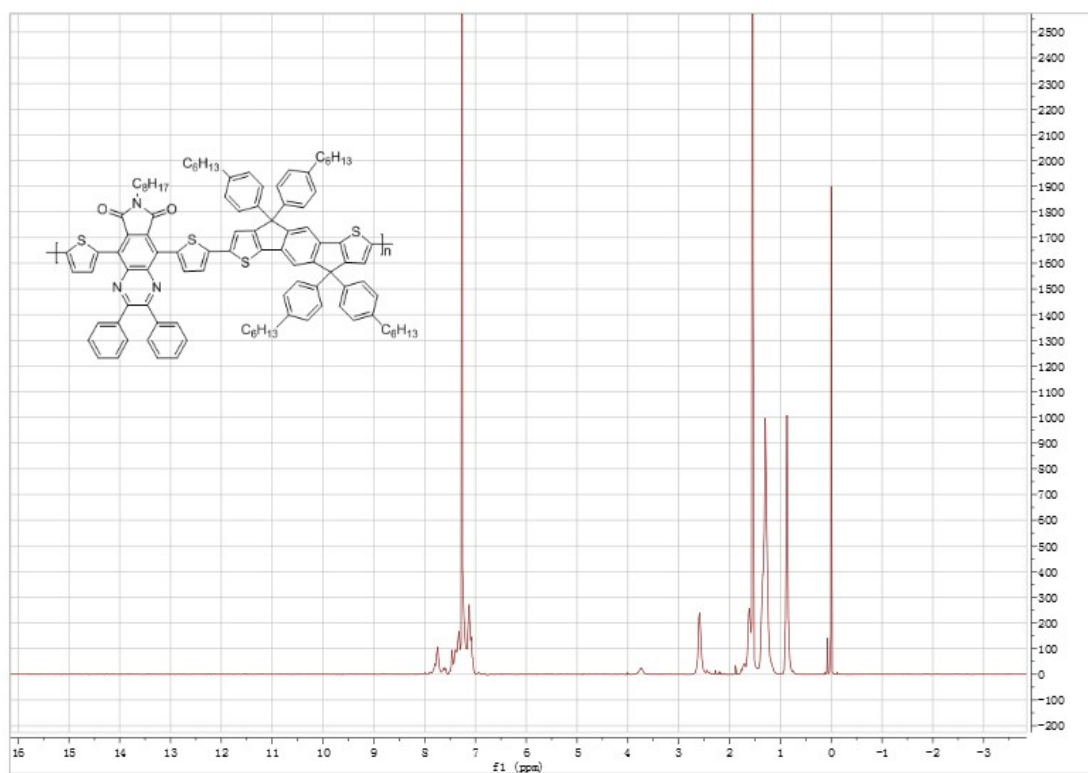


Figure S5. ¹H NMR spectrum of **P2**.

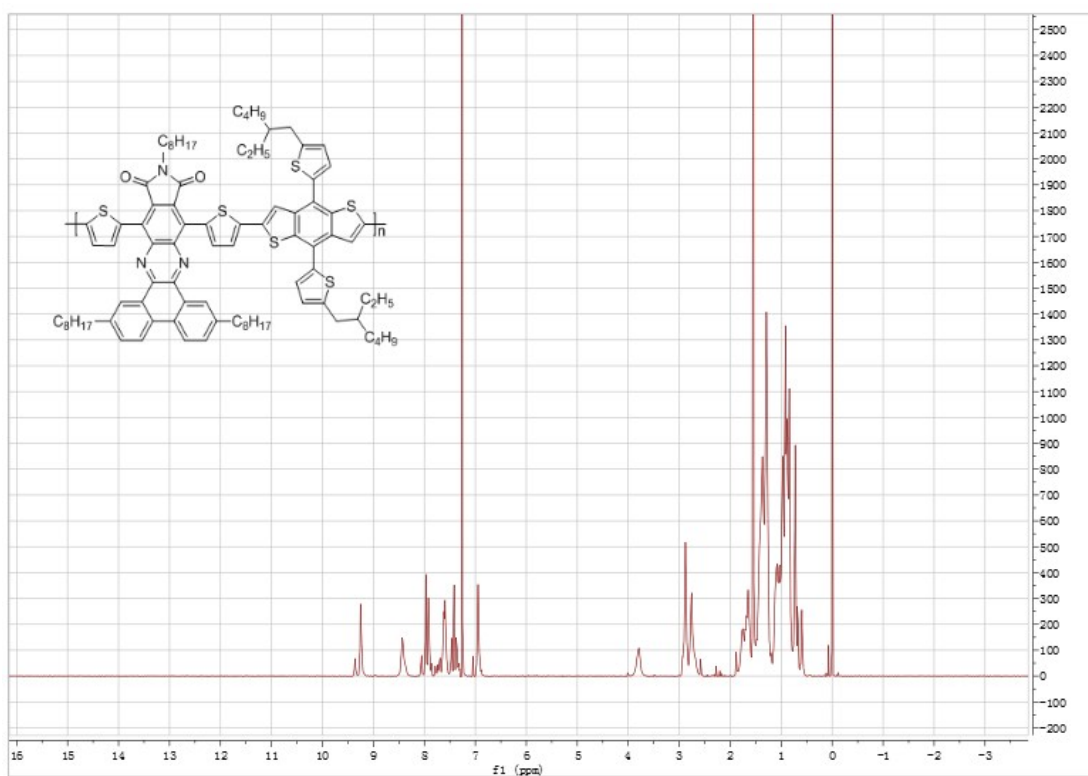


Figure S6. ¹H NMR spectrum of P3.

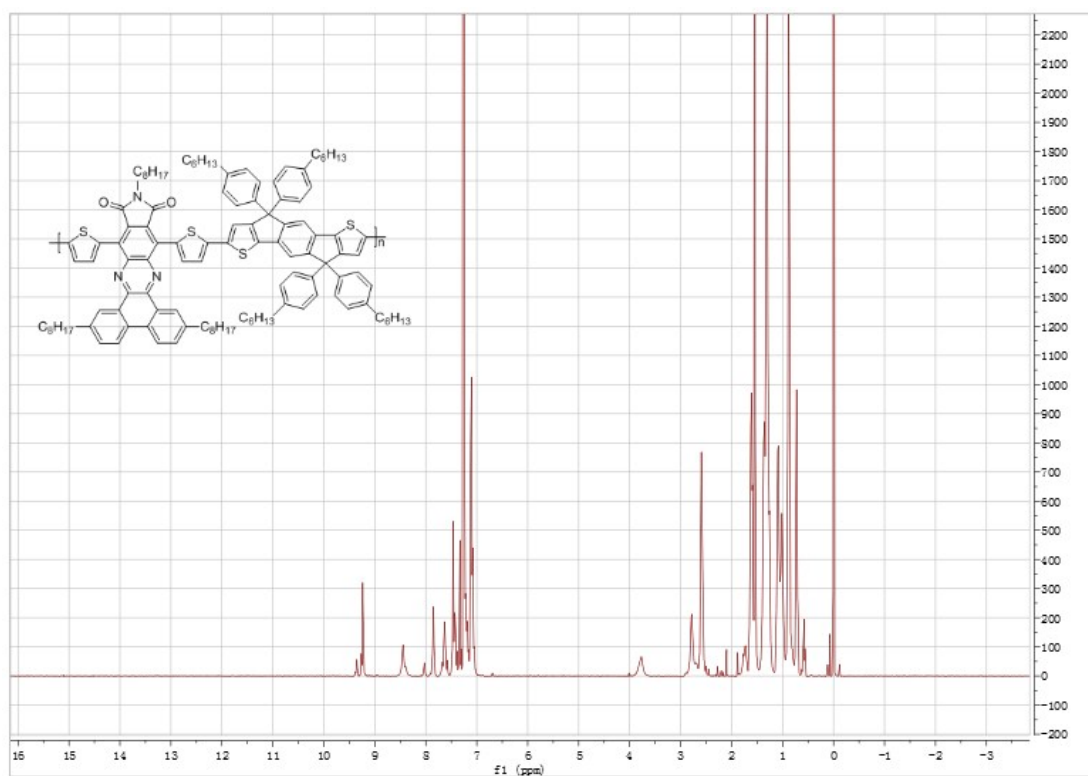


Figure S7. ¹H NMR spectrum of P4.