

Supplementary Material (ESI) for Polymer Chemistry

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Electronic Supplementary Information

Electrodeposition and Properties of TEMPO Functionalized Polythiophene Thin Films

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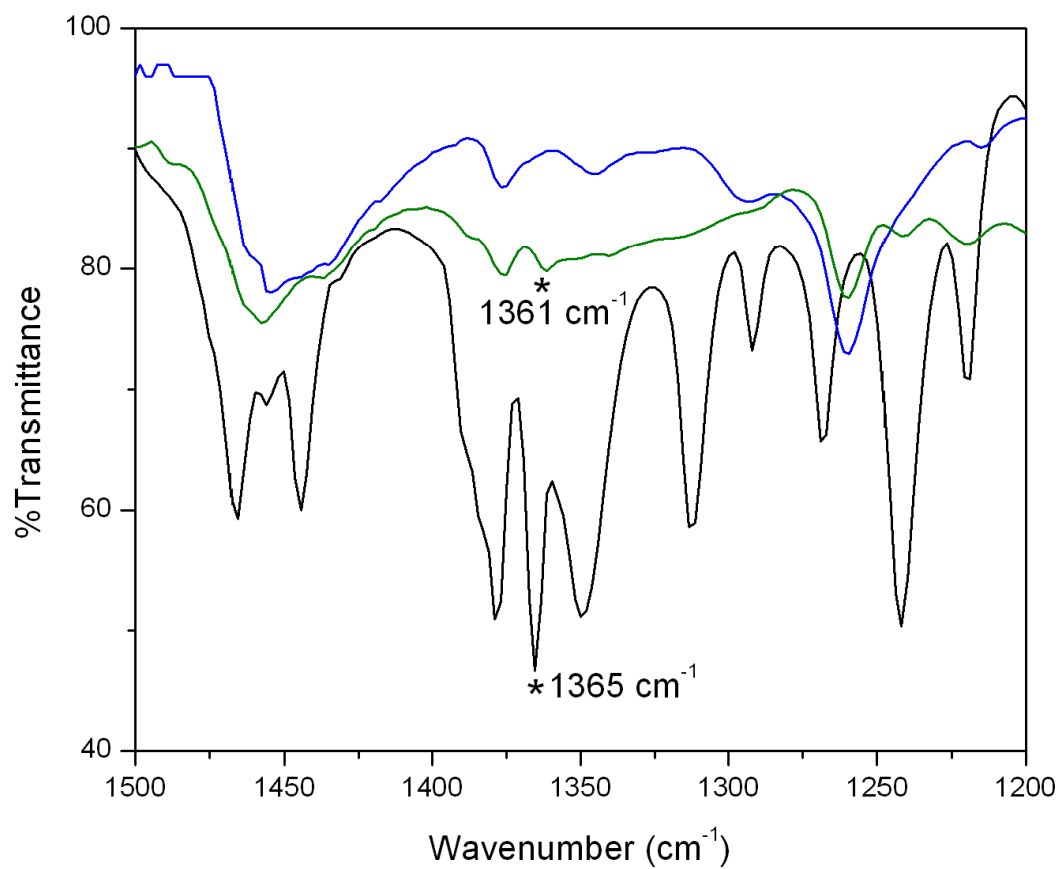


Fig. S1. IR spectra of **poly-3** (green), **poly-1** (blue), and **2** (black) displaying the fingerprint region. (*) indicates the $\nu(\text{NO}\cdot)$ stretching frequency.

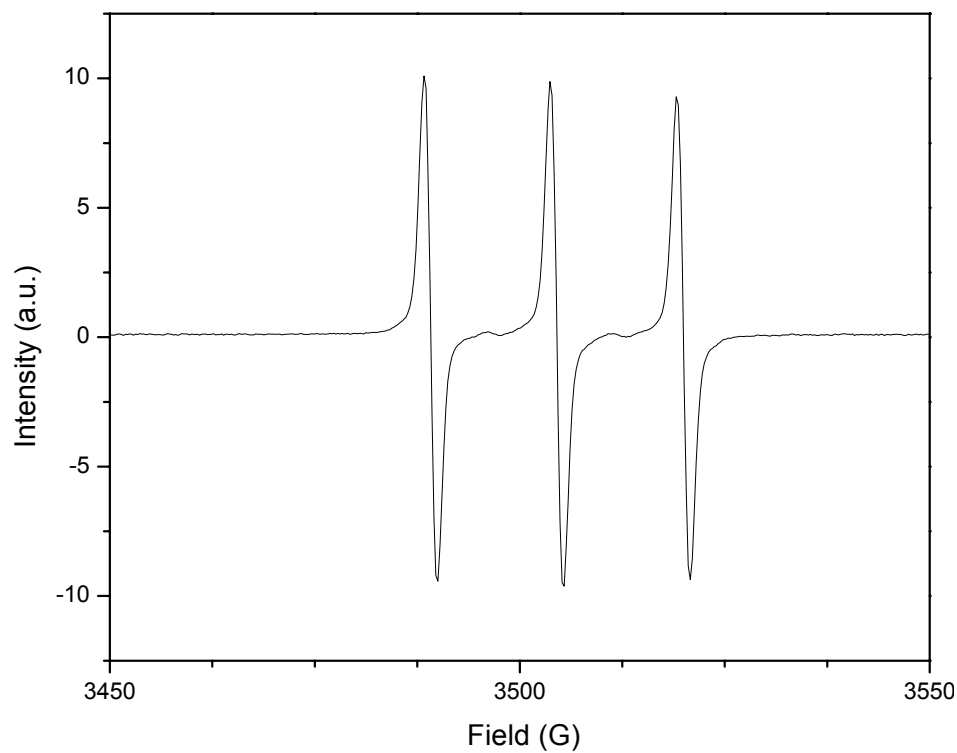


Fig. S2. X-band ESR spectrum of **poly-3** in C_6H_6 solution at 22 °C. Modulation Frequency: 20.00 kHz. Modulation Amplitude: 0.02 G. Time Constant: 2.56 s. Gain: 60 dB. Sweep Width: 150.6 G.

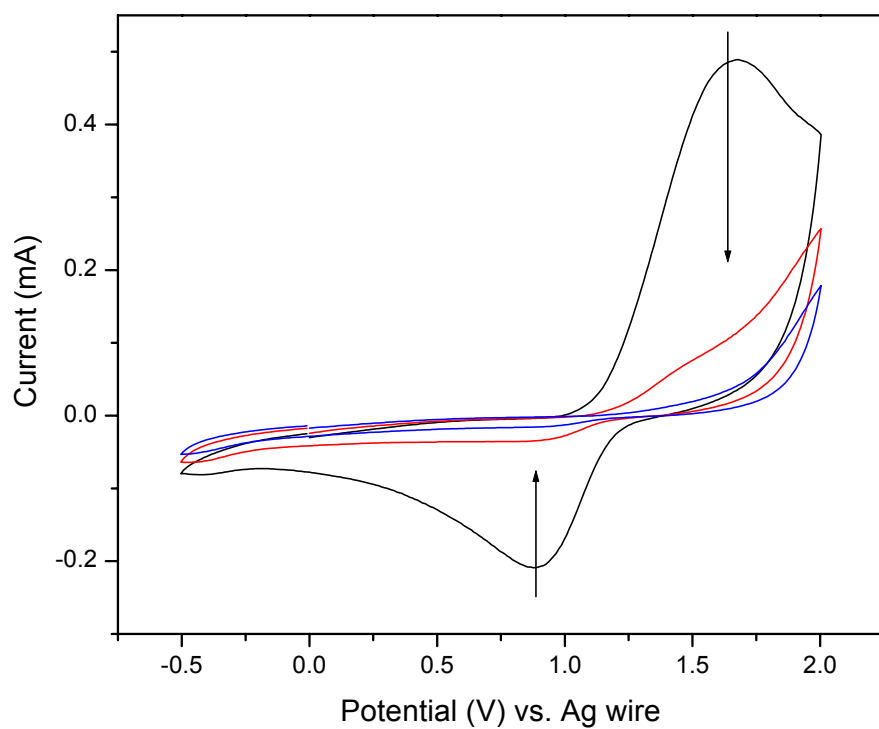


Fig. S3. Cyclic voltammetry of **poly-3** on an ITO working electrode. 0.1 M $[n\text{-Bu}_4\text{N}]\text{PF}_6$ in CH_3CN . Scan rate = 100 mVs^{-1} .