

Electronic Supplementary Information

**Hybrid materials consisting of all-conjugated
polythiophene backbone and grafted hydrophilic
poly(ethylene glycol) chains**

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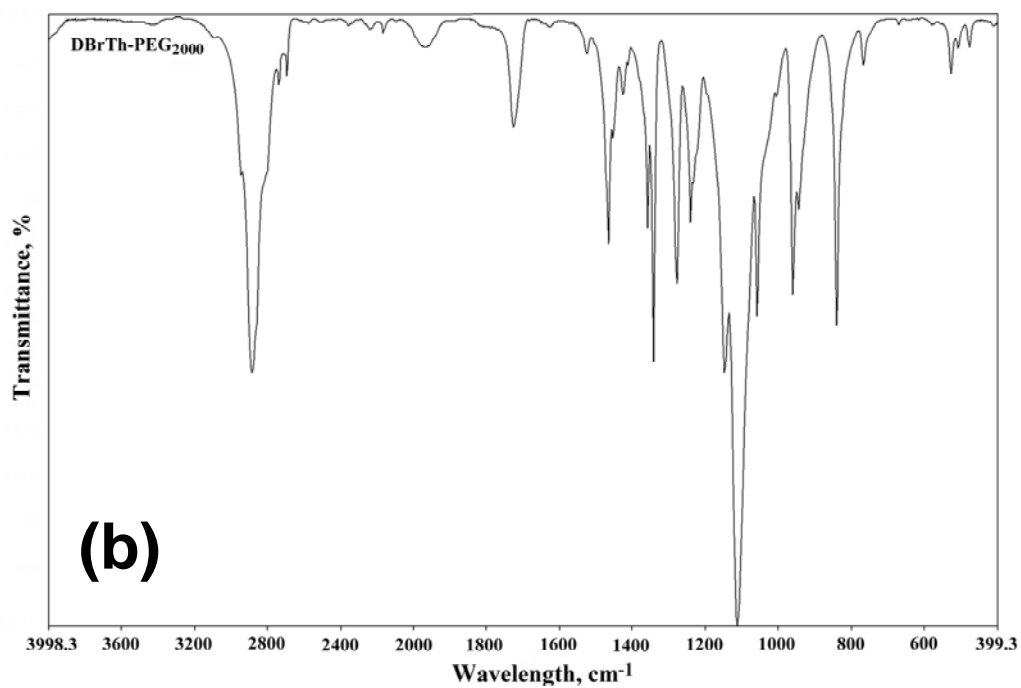
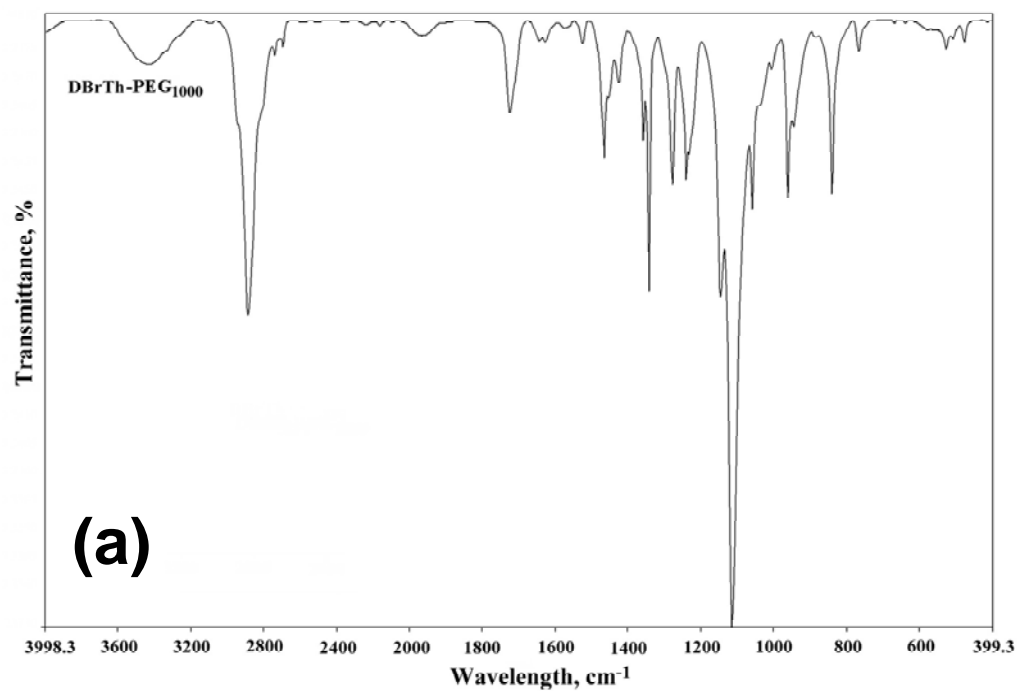


Figure S1. FTIR spectra of: (a) DBrTh-PEG₁₀₀₀; and (b) DBrTh-PEG₂₀₀₀.

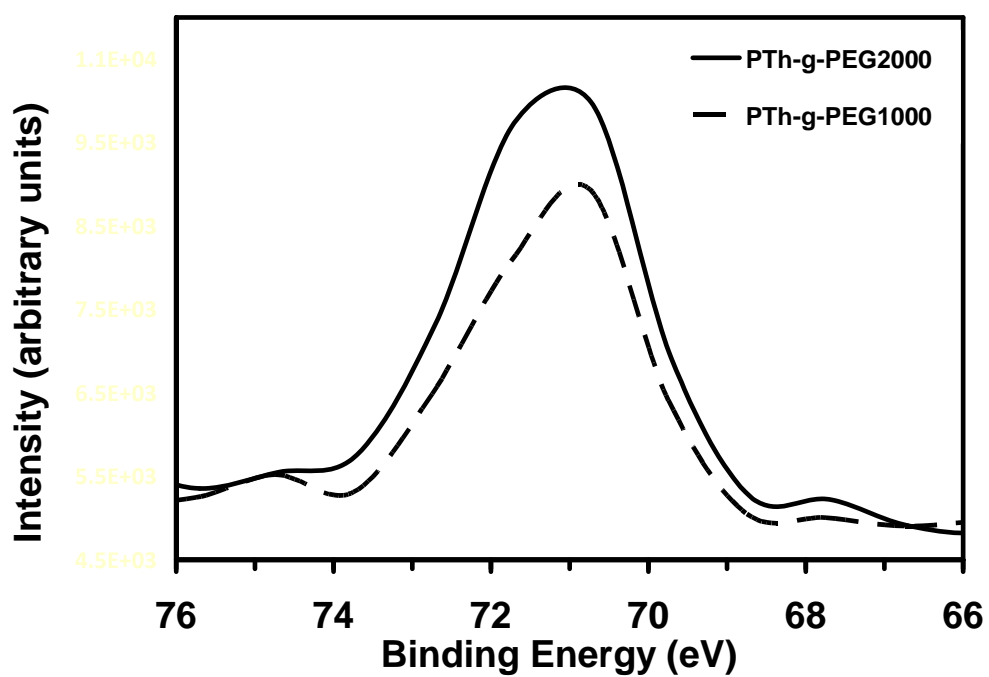


Figure S2. XPS spectra in the Br3d region for PTh-g-PEG₁₀₀₀ and PTh-g-PEG₂₀₀₀ prepared using LiClO₄ as electrolyte.

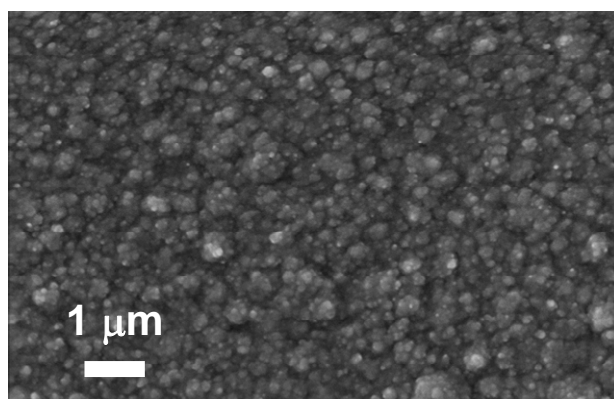


Figure S3. SEM micrograph PTh-g-PEG₁₀₀₀ prepared using 0.1 M LiClO₄ and a fixed potential of 0.75 V.