

Supporting Information

A one-step electrodeposition of homogeneous and vertically aligned nanotubes with parahydrophobic properties (high water adhesion)

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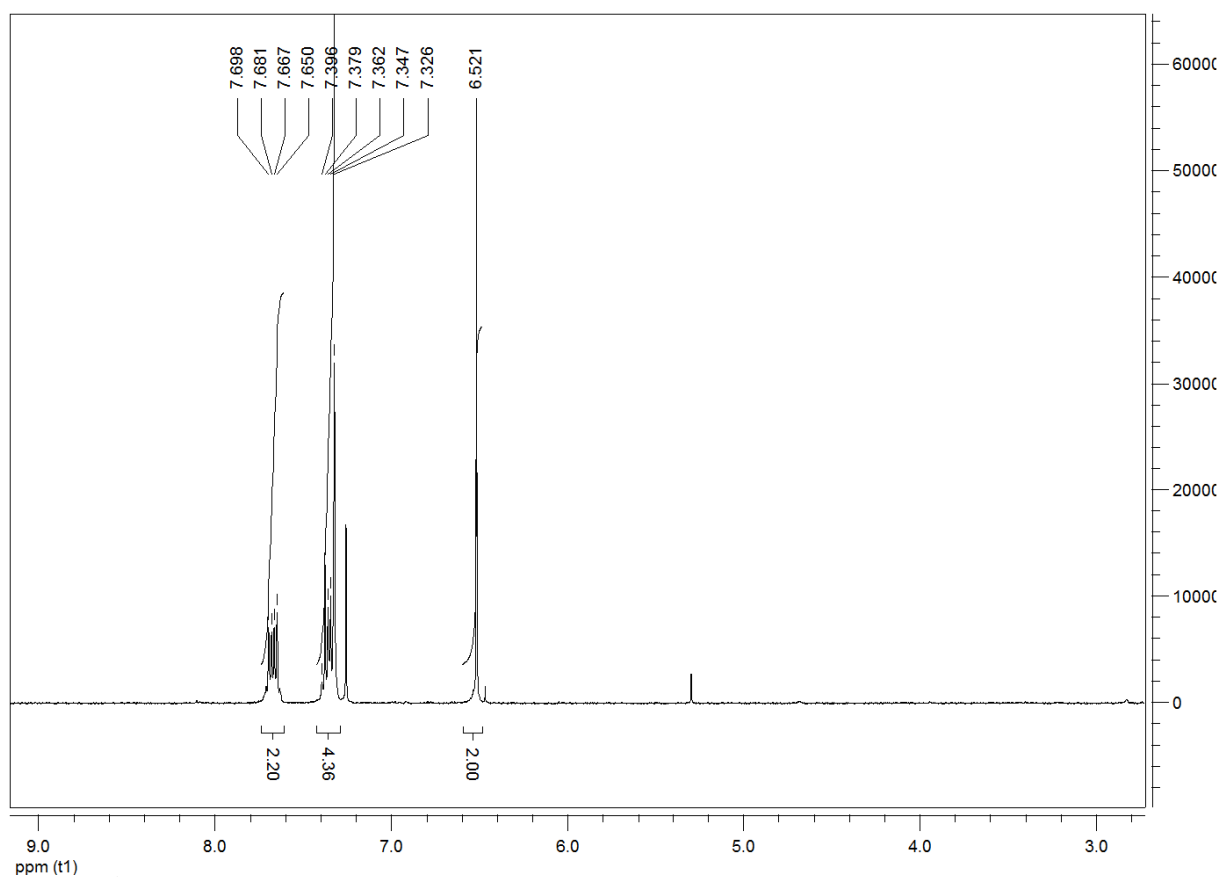


Fig. S1 ¹H NMR of NaphDOT.

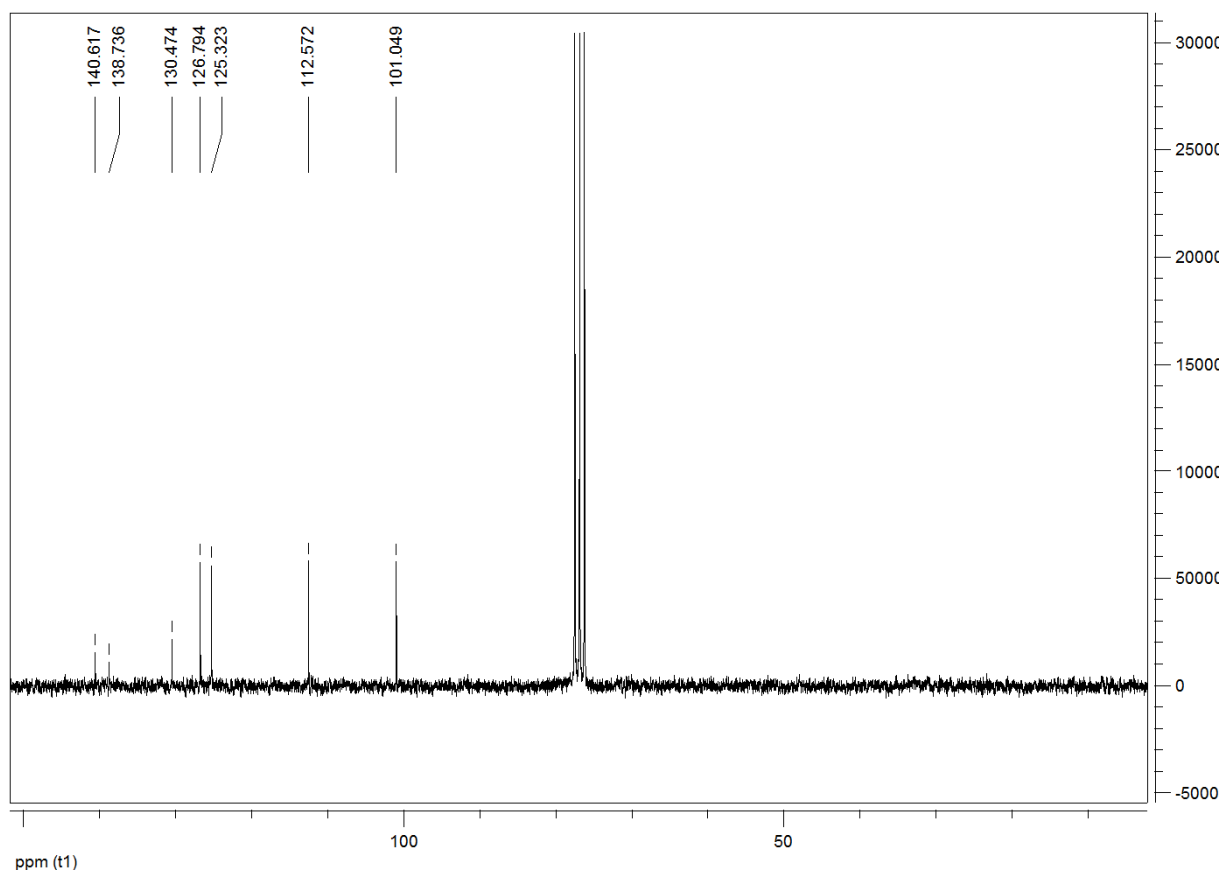


Fig. S2 ¹³C NMR of NaphDOT.

TD396 #1527 RT: 20.09 AV: 1 SB: 1511 4.25-19.29, 23.15-25.02 NL: 1.04E5
T: + c Full ms [50.00-800.00]

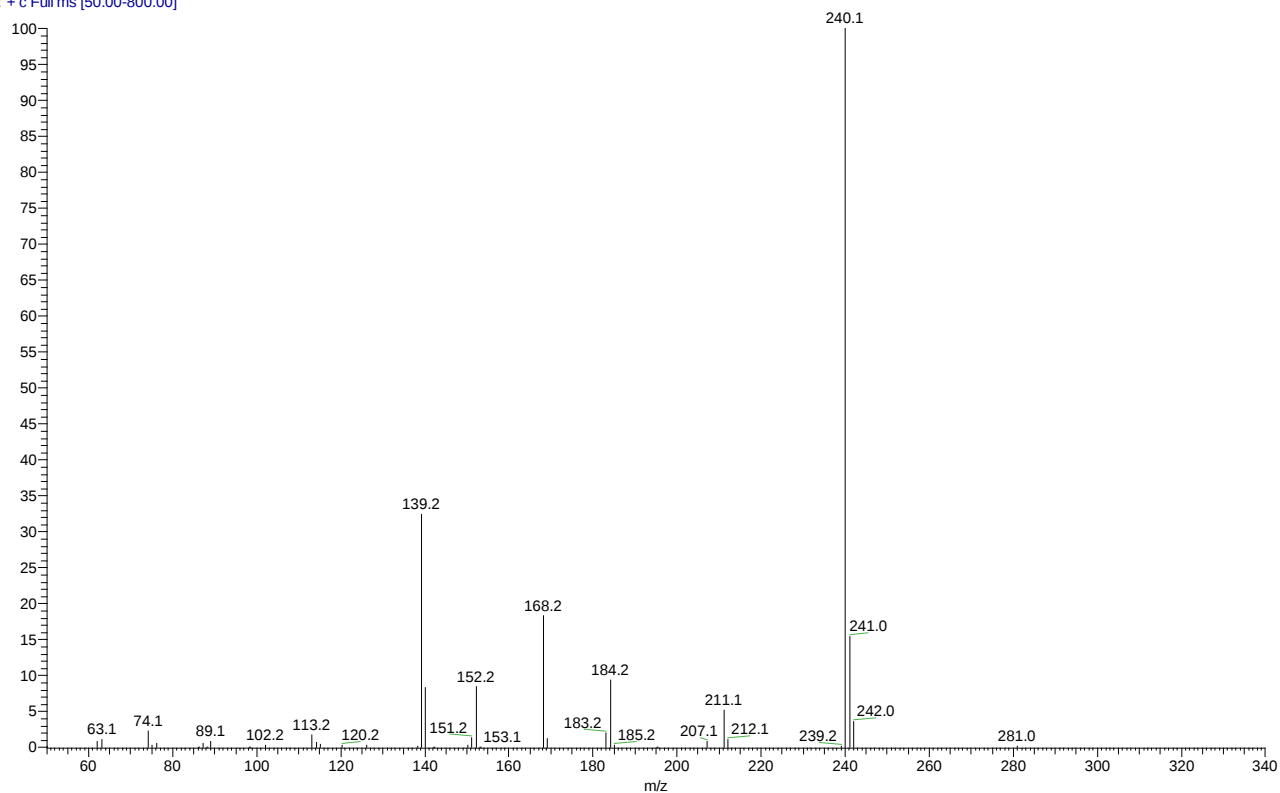


Fig. S3 Mass spectrum of NaphDOT.

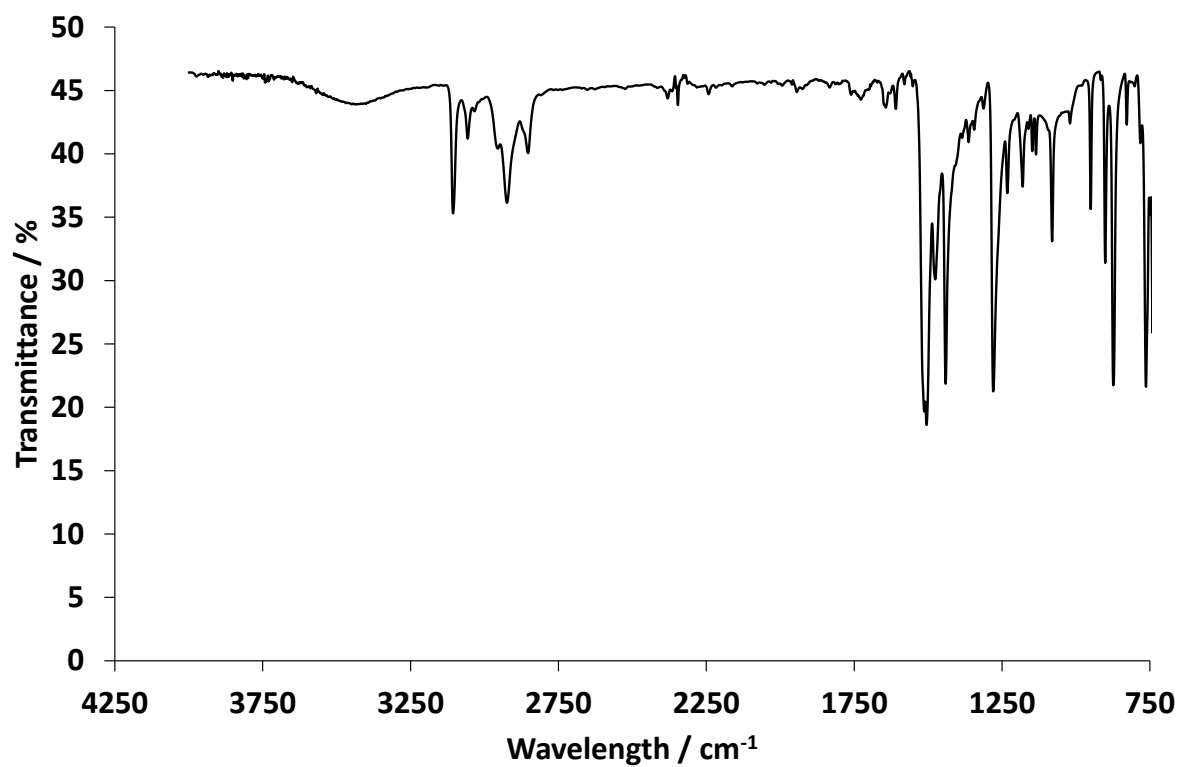


Fig. S4 IR spectrum of NaphDOT.

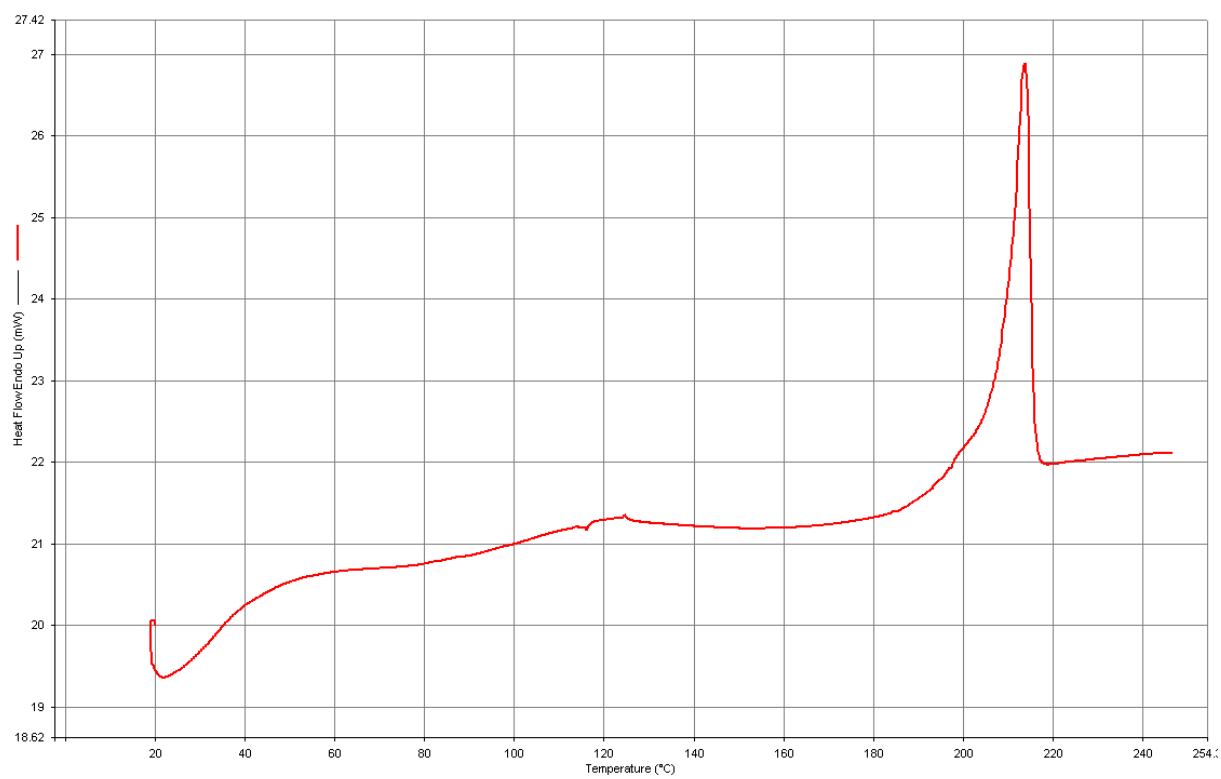


Fig. S5 DSC curve of NaphDOT.

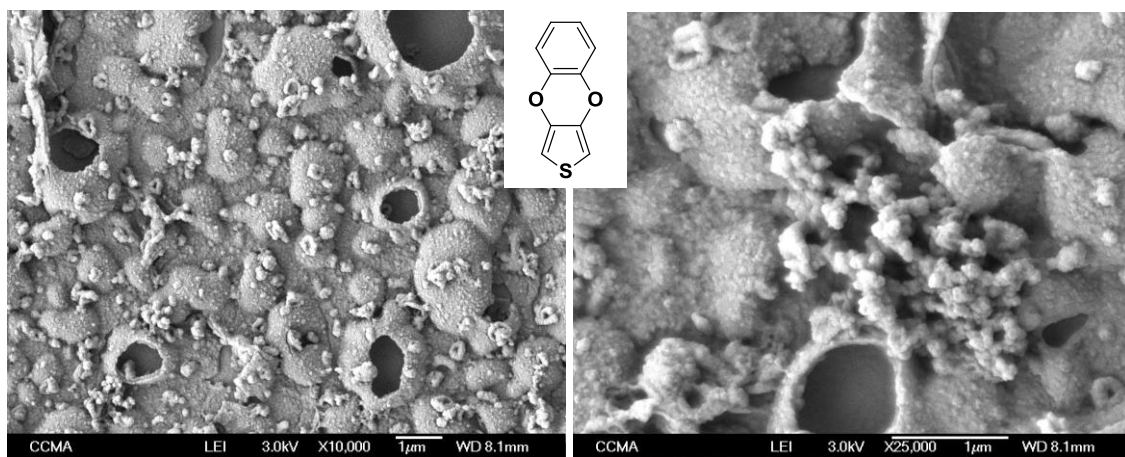


Fig. S6 SEM images PPheDOT at two magnifications (10000x and 25000x) obtained by cyclic voltammetry (5 scans) in $\text{Bu}_4\text{NClO}_4/\text{dichloromethane}$.

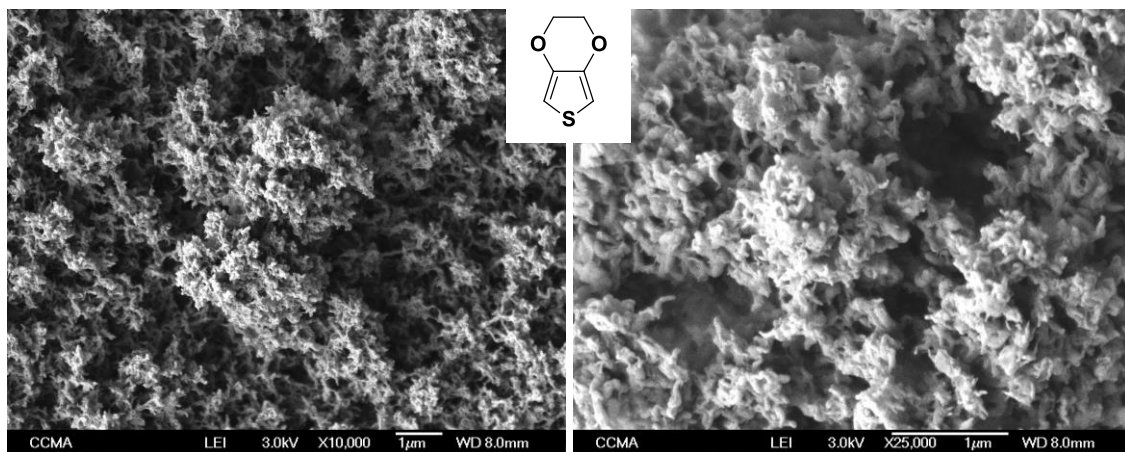


Fig. S7 SEM images PEDOT at two magnifications (10000x and 25000x) obtained by cyclic voltammetry (5 scans) in $\text{Bu}_4\text{NClO}_4/\text{dichloromethane}$.

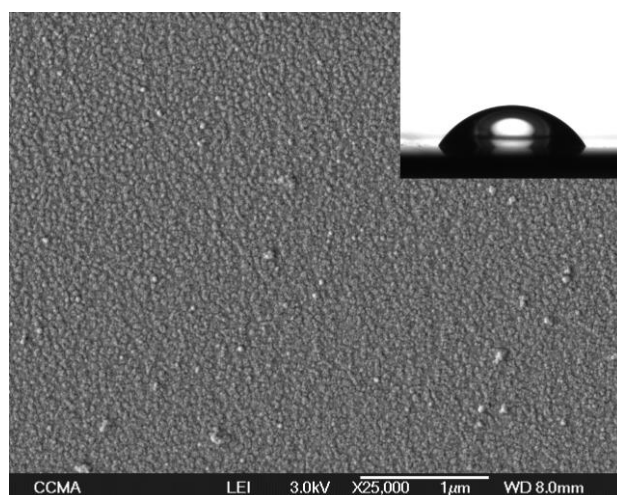


Fig. S8 SEM images of “smooth” PolyNaphDOT (magnification: 25000x); the inset represents a water droplet put on this substrate.